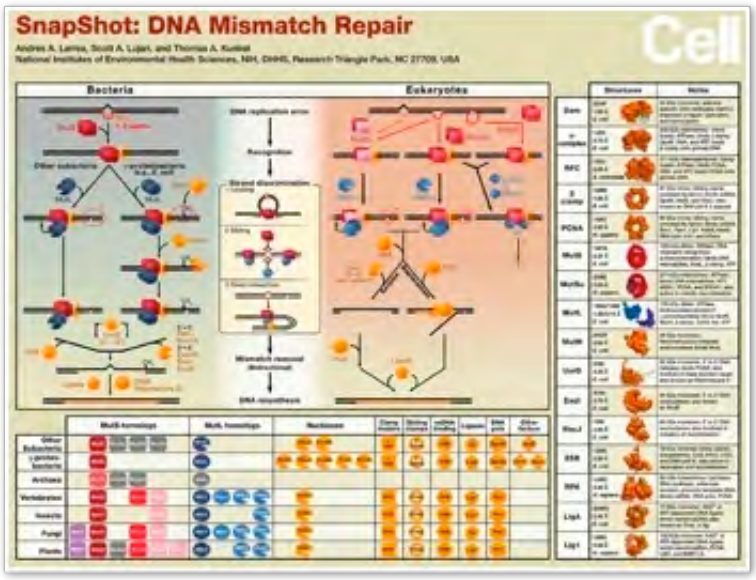
DDIR Web Board for June 2010 (archived)

Michael M. Gottesman, M.D.
Deputy Director for Intramural Research, NIH



Andres A. Larrea, Scott A. Lujan, Thomas A. Kunkel (NIEHS) in *Cell*; caption and abstract below; click to enlarge

In this issue...

* **NIH History — Past, Present and Future:** June 15 history symposium on NIH recent past, and the DDIR's thoughts on NIH's future
* **TGF-β Reborn at the NIH:** July 1 TGF-beta full-day meetings marks the resurgence of TGF-beta science at the NIH
* **OITE Reborn at the NIH:** the new training website provides new resources as well as better access to longstanding resources for all trainees
* **Peeling the Onion of a Diverse Workforce:** a report from the diversity subcommittee of the NIH Working Group on Women in Biomedical Careers, plus a correction of three popular misconceptions
* **Summer Student Season:** summer is our chance to impart within visiting interns a love of the scientific method... oh, and to dance, too.

Plus Regular Features, Updated Daily...

* **Approaching Deadlines and Events**
  -- ***Deadline:*** Call For 2011 ASBMB Awards Nominations (June 1)

-- WALS: “Transcriptional Control of Adipogenesis...," by Bruce Spiegelman (June 2)
-- 5th Annual Cancer Nanobiology Think Tank (June 3)
-- Cancer and Mitochondrial Function (June 8)
-- Statistical Methods for Genetic Analysis of Complex Diseases (June 8)
-- WALS: “A New Virus as a Culprit in Human Cancer,” by Yuan Chang (June 9) CANCELLED
-- Developmental Biology and Prevention and Treatment of Craniofacial Malformations (June 9)
-- Heart Rate Variability as a Measure of Sympathetic/Parasympathetic Balance (June 14)
-- ***Deadline:*** Registration for July 21 Clinical Research Management Workshop (June 14)
-- History in the NIH, a daylong symposium (June 15)
-- NIH Google Search Appliances (June 16)
-- Report From Haiti, by Bill Pape of GHESKIO (June 17)
-- Director’s Seminar Series, Yasmine Belkaid (June 18)
-- ***Deadline:*** Interferon and Cytokine Awards (June 18)
-- Third Annual Clinical Research Management Workshop (June 21–22)
-- Statistical Analysis of Microarray Data (June 22–23)
-- WALS: “...Plaques, Tangles and Neurodegenerative Disease,” by Karen Duff (June 23)
-- Translational Research and Vision (June 24–25)
-- Breast Cancer Chemoprevention and Anti-inflammatories (June 25)
-- WALS: “Regulating the Activity of MicroRNAs in Vertebrate Cells,” by Joan Steitz (June 30)
-- TGF-β Superfamily all-day meeting (July 1)
-- NIH Graduate and Professional Fair (July 8)
-- ***Deadline:*** ODS funding opportunity (July 12)
-- ***Deadline:*** Call for Nominations for Early- and Mid-Career Awards (July 16)
-- 25th anniversary event for the National Institute of Nursing Research (September 30)
-- ***Deadline:*** Sayer Award Call for Nomination (November 1)
-- ongoing: CC Grand Rounds, CCR Grand Rounds and Demystifying Medicine

* Kudos

(http://www.nih.gov/ddir/Kudos.html)

-- Robert Wurtz Wins the Gruber Prize
-- Teh Jeang, Editor of the Year
-- Kastner and Szabo Elected to National Academy
-- Clore, Nabel and Gottesman Elected to the “Older” AAAS
-- Caughey, Lowy and Subramaniam Elected to AAM
-- Many winners of the HHS Green Champion awards
-- Brian Murphy retires
-- William Eaton Wins Humboldt Research Award
-- Christine Grady on Presidential Commission for the Study of Bioethical Issues
-- Amir Gandjbakhche Elected SPIE Fellow
-- Antonina Roll-Mecak wins Searle Foundation Fellowship
-- Zbigniew Dauter Wins Top Honors from Polish Academy of Sciences
-- Gerhard Hummer, Sackler Prize in Biophysics
-- Francis Collins, Albany Medical Center Prize in Medicine and Biomedical Research

* New Job Postings (with closing dates)

(http://www.nih.gov/ddir/Jobs.html)

-- Director (NIH Inducible Pluripotent Stem Cell Center, June 1)
-- Branch Chief, Lister Hill NBCB (NLM, June 15)
-- Chief, Department of Anesthesia and Surgical Services (CC, June 15)
-- Staff Scientist, Biological Chemistry (NIDDK, July 9)
-- Deputy Scientific Director (NIAAA, August 11)
-- Tenured or Tenure-Track Epidemiologist (NCI DCEG, August 15)
-- Chief, Hematology Service, Department of Laboratory Medicine (CC, August 15)

-- Scientific Director (NIA, August 20)
-- Tenure/Tenure-Track Position, Laboratory of Virology (NIAID, August 31)
-- Tenure-Track/Tenure-Eligible Investigator (NCI CCR, September 1)
-- Staff Clinician, Rare Diseases (CC/NHGRI, open-ended)
-- Tenure Track Position, Office of the Scientific Director (NEI, open-ended)
-- Research Scientist, Laboratory of Sensorimotor Research (NEI, open-ended)
-- Chief of the Parkinson Clinic (NINDS, open-ended)
-- Chief of the Electromyography Section (NINDS, open-ended)
-- Staff Scientist, Systems Biology / Bioinformatics (NCI-NINDS, open-ended)
-- Clinical Neurophysiology / Staff Clinician (NINDS, open-ended)
-- Chief, Laboratory of Computational Medicine (NEI, open-ended)
-- Tenure-Track Scientists, Neurobiology-Neurodegeneration & Repair Laboratory (NEI, open-ended)
-- Chief, Visuomotor Disorders Section (NEI, open-ended)
-- several other positions past initial deadline but maybe still accepting

* Science Stories You Might Have Missed Last Month

(http://www.nih.gov/ddir/NewsMedia.html)
-- Research Offers Hope for Breast Cancer Vaccine (Cleveland Plain Dealer, May 31)
-- How Children Outgrow Socialism (ScienceNOW, May 27)
-- The Metabolic Secrets of Good Runners (Nature News, May 26)
-- Glaxo Tries a Linux Approach (Wall Street Journal, May 26)
-- Mouse Project to Find Each Gene's Role (Nature News, May 25)
-- Hitting the Lights in Wasteful Offices (New Scientist, May 25)
-- Remove HIV's Invisibility Cloak to Defeat It (New Scientist, May 21)
-- Turtle 'Super Tongue' Discovered [to breathe] (BBC News, May 20)
-- Vibrating Frogs Are Ready to Fight (ScienceNOW, May 20)
-- Genome From a Bottle (Science News, May 20)
-- Neglected Diseases: Teach or Treat? (The Scientist, May 18)
-- The Expanding Mind (Seed, May 17)
-- A Crack in the Mirror Neuron Hypothesis of Autism (ScienceNOW, May 12)
-- All Present-Day Life Arose From a Single Origin (Science News, May 12)
-- New Risks Emerge for Some Stomach Drugs (Wall Street Journal, May 11)
-- Genomics Goes Beyond DNA Sequence (Nature News, May 10)
-- Biosecurity Laws Hobble Research (The Scientist, May 10)
-- At Front Lines, AIDS War Is Falling Apart (New York Times, May 9)
-- Girl Frozen in Time May Hold Key to Ageing (The Times London, May 9)
-- Signs of Neanderthals Mating With Humans (New York Times, May 6)
-- Neuroscience: Illuminating the Brain (Nature News, May 5)
-- Scientists Resurrect Mammoth Hemoglobin (ScienceNOW, May 2)
-- Hunters and Shoppers: Men and Women Navigate Differently (The Economist, May 1)
-- More Money, Fewer Postdocs (The Scientist, May 1)
-- Evolution of Science (The Scientist, May 1)
-- Infection, Kill Thyself (Science News, May 1)

* Scientific Interest Groups **(New SIGs)**

(http://www.nih.gov/ddir/SIGs.html)
-- Antibody Interest Group
-- Infectious Diseases Interest Group
-- Microbiome Working Group
-- Engineering and Physical Science Interest Group
-- Pediatric Imaging Scientific Interest Group
-- Probiotic and Prebiotic Working Group
-- TGF-beta Superfamily Interest Group

-- Wnt Working Group
-- Neuromuscular Diseases Interest Group
-- Metabolomics Scientific Interest Group
-- Advanced Pharmaceutical Screening Interest Group
-- Biological Visualization Interest Group

intermixed with...
-- Biomedical Computing Interest Group (BCIG) book club schedule
-- Translational Research Interest Group (TRIG) lecture schedule

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Cover Image

This issue's image comes from Andres Larrea, Scott Lujan, and Thomas Kunkel (NIEHS) in *Cell*, 2010 May 14;141(4):730.e1, the Cell SnapShot titled "DNA mismatch repair."

Caption — Mismatch Repair in Bacteria and Eukaryotes: Mismatch repair in the bacterium Escherichia coli is initiated when a homodimer of MutS binds as an asymmetric clamp to DNA containing a variety of base-base and insertion-deletion mismatches. The MutL homodimer then couples MutS recognition to the signal that distinguishes between the template and nascent DNA strands. In *E. coli*, the lack of adenine methylation, catalyzed by the DNA adenine methyltransferase (Dam) in newly synthesized GATC sequences, allows *E. coli* MutH to cleave the nascent strand. The resulting nick is used for mismatch removal involving the UvrD helicase, single-strand DNA-binding protein (SSB), and excision by single-stranded DNA exonucleases from either direction, depending upon the polarity of the nick relative to the mismatch. DNA polymerase III correctly resynthesizes DNA and ligase completes repair.
In bacteria lacking Dam/MutH, as in eukaryotes, the signal for strand discrimination is uncertain but may be the DNA ends associated with replication forks. In these bacteria, MutL harbors a nick-dependent endonuclease that creates a nick that can be used for mismatch excision. Eukaryotic mismatch repair is similar, although it involves several different MutS and MutL homologs: MutSα (MSH2/MSH6) recognizes single base-base mismatches and 1–2 base insertion/deletions; MutSβ (MSH2/MSH3) recognizes insertion/ deletion mismatches containing two or more extra bases. There are three eukaryotic MutL heterodimers: MutLα (in humans MLH1/PMS2; in yeast MLH1/PMS1), MutLβ (MLH1/ MLH3), and MutLγ (human MLH1/PMS1; yeast MLH1/MLH2). The eukaryotic MutS and MutL heterodimers have partial overlap in substrate specificity. MutLα and MutLβ have endonuclease activity, with the active sites present in human PMS2 (yeast PMS1) and human MLH3. The resulting nick can be used for excision by the double-strand DNA 5′-exonuclease activity of Exo1. No helicase has yet been implicated in eukaryotic mismatch repair. Other exonucleases may perform excision, or the mismatch may be removed by strand displacement synthesis. DNA is resynthesized by DNA polymerase δ.

Protein Structures: Also depicted are structures of proteins involved in DNA mismatch repair (including Protein Data Bank ID, resolution, and species) among the many that are now available. Future studies will likely add to this list, possibly including proteins involved in excision, termination, and coordination of mismatch repair with nucleosome reloading and chromatin remodeling after replication.

Evolutionary Conservation: The table provides information on the evolutionary conservation of mismatch repair proteins. Additional notes: grey icons indicate genes found only in subset of species; MSH1 in fungi is involved in mitochondrial DNA repair and is derived from β-proteobacterial MutS via horizontal gene transfer from ancestral mitochondria; MutS in plants is derived from cyanobacterial MutS, is associated with chloroplasts, and is present in varying copy numbers; in archaea the general mismatch repair pathway is unknown, although MutS and MutL family members are found in limited species, likely due to horizontal gene transfer from bacteria. For archaeal MutS5, no mismatch repair-specific DNA binding has been reported.

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Michael M. Gottesman, M.D.
Deputy Director for Intramural Research

NIH History: Past, Present and Future

"Those who cannot remember the past are condemned to repeat it," wrote philosopher George Santayana in The Life of Reason. Repeating the past at the NIH wouldn't be a terrible thing, given our rich history of biomedical advances. Nevertheless, I don't advocate ignorance. On June 15, the NIH Office of History is hosting a full-day symposium, "History in the NIH," a series of lectures by the seven Stetten fellows now at the NIH. Their presentations explore the NCI's cancer virus program in the 1970s; public responses to Leptin and obesity; complementary and alternative medicine at the NIH; nanotechnology and cancer; the NIH consensus development program; the history of psychosurgery; and the role of the NIH in the development of research ethics.

I recommend checking out the symposium schedule at http://history.nih.gov/about/conferences.html and then stopping in for a few lectures.

If the NIH were a city, I think we'd be more of a New York than a Venice — that is, not just a place with historical significance but also a place where history continues to be made. It's sometimes difficult to appreciate or predict the impact that our work will have in 10, 20 or 50 years from now. Looking back with 20-20 hindsight is easier. There's a spot in Building 10 where you can stand and point to the origin of four Nobel Prizes all within a hundred meters. Yes, you'd have to shine your magic laser through walls and ceilings, but in doing so you'd point to the labs of Marshall Nirenberg, Julius Axelrod, Christian Anfinsen and D. Carleton Gajdusek.

Without bias — ok, maybe with just a little bias — I could name a half dozen research projects performed at the NIH during the 1990s and beyond that should be on the short list for another Lasker (we've had nearly 30 winners, mind you) or Nobel. Yet I think we continue to make history right now, both in terms of pure science and our impact on science. Concerning the latter, I think historians will point back to this moment in time to see what we have done with PubMed Central, with government-industry collaborations, and with streamlining clinical research. And I truly hope that next year, perhaps with the 2011 NIH history symposium, I can boast about the history we are making in the recruitment and retainment of a diverse scientific staff, a problem faced by every university in America.

We're proud of our heritage, and we're destined to repeat it.

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Images: (top) Humble beginnings, a photograph from the late 1800s shows the Marine Hospital on Staten Island, New York, and with no uncertainty the inspiration for the cover of Pink Floyd's Wish You Were Here album. The National Institutes of Health began here in 1887 as the Hygienic Laboratory, occupying just one room. The Laboratory moved to Washington, D.C., in 1891 and became the National Institute (singular) of Health in 1930. (lower) The program for the June 2010 history symposium; click to download.

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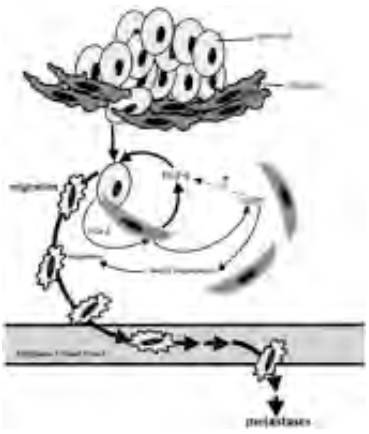
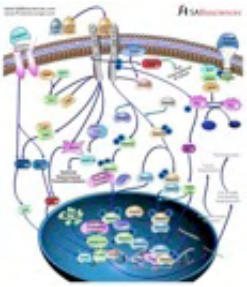
TGF-β Reborn at the NIH



The TGF-beta Superfamily Scientific Interest Group will sponsor an inaugural, full-day meeting on Thursday, July 1, from 9 a.m. to 4:30 p.m. at the Natcher Conference Center to highlight TGF-β-related research being done on the NIH campus. I am thrilled to hear about this new SIG and this renewed interest in sharing knowledge about TGF-β.

The NIH once had two world-renowned scientists who led the TGF-β community here: Anita Roberts and Michael Sporn. Anita was the chief of NCI's Laboratory of Cell Regulation and Carcinogenesis from 1995 until her untimely death from cancer in 2006. Mike Sporn was chief of NCI's Laboratory of Chemoprevention until his departure for Dartmouth Medical School in 1995. Together Anita Roberts and Mike Sporn co-authored over 160 papers on TGF-β including the seminal 1982 paper in Nature that first identified TGF-β, titled "Isolation from murine sarcoma cells of novel transforming growth factors potentiated by EGF." In 2003, Thomas Scientific's Science Watch listed both of them among the 50 most-cited scientists during 1982 to 2002, in a feature called "Twenty Years of Citation Superstars."



TGF-β, a protein that controls cellular proliferation and differentiation, among other functions, cuts across so much of what we research here: immunity, cancer, heart disease and diabetes to name a few. While Anita's death was a blow to the local community, Lalage Wakefield (NCI), Kathy Flanders (NCI) and Sushil Rane (NIDDK), among many others, have taken up the charge to maintain our reputation as a premier institution for TGF-β research. Contact their colleague Joe Sousa in NIDDK (sousaj@niddk.nih.gov) for a meeting agenda.

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Image: Click either image to enlarge. (top) Tumor-stroma interactions increase malignancy of tumor cells by bidirectional effects of TGF-β; taken from "Transient tumor-fibroblast interactions increase tumor cell malignancy by a TGF-Beta mediated mechanism in a mouse xenograft model of breast cancer," by Christina Stuelten et al. (NCI), PLoS One. 2010 Mar 23;5(3):e9832. (lower) You are here; the TGF-beta pathway, a work in progress as conceived by SABiosciences.

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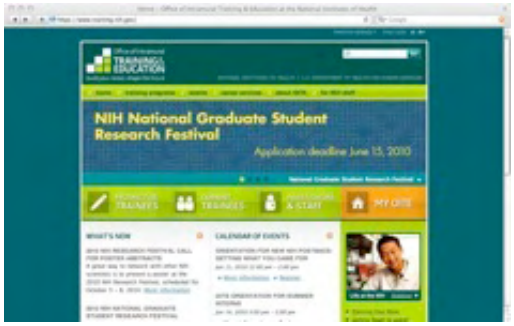
OITE Website Reborn at the NIH



The Office of Intramural Training and Education (OITE) has revamped and greatly enhanced its website at https://www.training.nih.gov. While this has obvious practical implications for all current, potential and even past trainees, many of you not directly related to OITE might want to view the site for ideas on how to improve your own communications. For example, Sharon Milgram, the OITE director, told me that the new site has a searchable alumni database to improve networking among past and current trainees and NIH tenured and tenure-track scientists. Elsewhere, resources that have long existed are now easier to find: a searchable OITE training events calendar; links to its video-library of career development workshops and many other career development resources; job postings; and extensive career development information for students, fellows, and mentors in the extramural community.

OITE's small and dedicated team offers many services and year-round events, and many trainees aren't

fully plugged in. If you supervise trainees, please tell them about OITE's new website and OITE in general. And contact Sharon Milgram (milgrams@od.nih.gov) directly with feedback, positive or negative, about the site.

-mg

Image: Screen-capture of the new OITE website at http://www.training.nih.gov, captured on June 8, 2010.

###

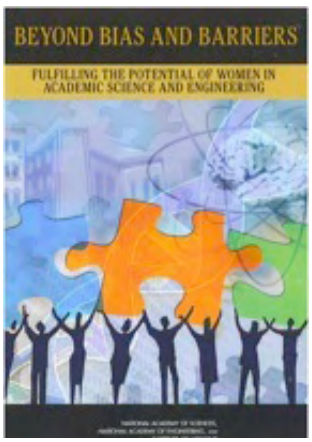
Peeling the Onion of a Diverse Workforce

Many of you know that NIH Director Elias Zerhouni established the NIH Working Group on Women in Biomedical Careers in January 2007, a response to the 2006 National Academies report "Beyond Bias and Barriers: Fulfilling the Potential of Women in Academic Science and Engineering."

Two assistant directors in my office, Joan Schwartz and Roland Owens, have helped to lead a subcommittee of this group on diversity. In 2008 this diversity subcommittee assembled separate focus groups of tenure-track investigators, staff scientists and clinicians, and postdoctoral fellows with the hope of gaining insight into why there are disproportionate losses of women and minorities between the postdoctoral fellowship and tenured investigator career stages. More to the point, we want to know whether NIH policies, procedures or organizational factors have created barriers to the progress of women and minorities. If so, what policies, programs or strategies can address these issues?

It's fascinating what you learn when you actually talk to people. The subcommittee uncovered several hot-button issues, such as childcare, maternity leave and mentoring. The focus groups were small but insightful.

Joan and Roland presented their report to the NIH scientific directors on June 2. The SDs agreed with my office that there are systemic problems that must be addressed, albeit how to address them is the million-dollar question. But it was pointed out that some of the issues raised in the report — through direct and indirect quotes from intramural scientists — are simply a matter of misunderstanding.



Misconception #1: For example, there is a perception that an NIH fellow cannot get a tenure-track position here. That's simply not true. Depending on the IC, a quarter to half of those hired to the tenure track in the last seven years came immediately from an NIH postdoc position. This actually gives a statistical advantage to NIH fellows.

Misconception #2: Similarly, there's a perception that clinical tenure-track investigators can't get tenured. While the numbers of clinical investigators aren't as high as for more basic tenure-track investigators, the rate of tenure at the CTC level is actually higher (95% vs. 90%).

Misconception #3: The issue of paid leave is one of the biggest misunderstandings among postdocs. Trainees are not federal employees and do not earn annual or

sick leave. Yet any trainee at the NIH for more than 90 days is entitled to a minimum of two weeks "excused absence" with stipend (i.e., vacation). A trainee's preceptor can approve an additional week, and the SD can approve more leave with stipend if needed. Trainees also are guaranteed eight weeks of excused absence for the birth or adoption of a child or family health concerns. While it is true that excused leave seems to vary from lab to lab, the guaranteed minimum is an NIH-wide rule, as specified in the NIH Policy Manual, which for IRTAs is posted at http://www1.od.nih.gov/oma/manualchapters/person/2300-320-7/.

At first glance, these misunderstandings may seem to have little to do with diversity. But they were voiced by women and minority scientists here and, in some cases, represent a perceived bias that certain groups at the NIH are treated better than others — that is, offered more leave, more resources or more information in general. I can only hope that any true bias is rare, but we will all benefit from open dialogue on matters of diversity. Look for more news from my office on this issue.

-mg

Images: (top) What we got and want we want; a collage of NIH researchers taken from OITE's new website under the title "Who conducts research at the NIH." (lower) The book cover of Beyond Bias and Barriers: Fulfilling the Potential of Women in Academic Science and Engineering, a report that led to the creation of the NIH Working Group on Women in Biomedical Careers and its diversity subcommittee.

###

Summer Student Season

"Summer's here and the time is right for dancin' in the streets," sang Martha and the Vandellas in 1964. One quick look at the hundreds of high school and college students lining up for their photo IDs, and you'll know that summer is also time for dancing in the labs. Well, maybe dancing in the labs isn't the best of ideas, even with proper lab attire, but there's no escaping the fact that NIH is really hopping with budding scientists during the summer.

Almost no one becomes a laboratory scientist without having had some kind of formative experience, perhaps as a student or as an intern in a laboratory. Every summer, the NIH intramural program provides about 1,000 students, selected from more than 5,000 applicants, with this critical opportunity to get firsthand experience in what research is like. This is our chance to impart within these students a love of the scientific method.

Whether we are principal investigators, staff scientists, or postdocs, we have a responsibility to provide our visitors with a positive experience and to exemplify what it means to be a first-rate scientist at the federal government's premier biomedical research institution. This entails taking the time to explain your work and why it is exciting to you and also showing interest in their progress. We also must teach by example, maintaining at all times proper lab etiquette, from safety (e.g., no flip-flops in a wet lab) to respect for colleagues. These students are eager to emulate you.

Think of your own experiences as a student, both positive and negative. This might be your best guide in interacting this summer with these students, who quite possibly will be your future collaborators.

-mg

Images: (top) The ID line formeth. (lower) Summer interns from but one NIH institute, NHLBI. The odds of

all of them wearing the same shirt on the same day for the same photograph was calculated to be 1 in 13 trillion. The apparent high-schooler with the beard, first on left in the front row, is Herbert Geller, chief of the NHLBI Developmental Neurobiology section and Associate Director for Education.

###

Kudos and Other Items of Interest

Went Green

Various parties at the NIH have won various HHS Green Champion awards. Precious little information is available online, but assume these awards concern environmental issues and not the color green. The NIH Office of Technology Transfer won the "Environmental Stewardship" award for its effort in becoming a nearly paperless office. The NIH Library won the "Sustainable Building Design" award for its green terrace and vegetative roof. The Library is aiming to become LEED-certified; much of the building from rugs to roofs is environmentally sound. The NIH ARRA-Funded Green Fleet Acquisition group won the "Fleet Management" award. And, NIEHS, fittingly enough, won two awards: The NIEHS Commitment to Sustainability group won the "Organization Green Champion" award; an the NIEHS Energy Savings Performance Contract won the "Energy and Water Conservation" award. Honorable mentions include the NIH Library's for green procurement and NIH Environmental Management System (the “Go Green Team”) for environmental stewardship. [Photo of the NIH Library’s green terrace taken by the DDIR web board editor with his BlackBerry.]

###

William Eaton Wins Humboldt Research Award

William Eaton of NIDDK’s Biophysical Chemistry Section in the Laboratory of Chemical Physics has won a Humboldt Research Award. The award is granted in recognition of a researcher's entire achievements to date to academics whose fundamental discoveries, new theories, or insights have had a significant impact on their own discipline and who are expected to continue producing cutting-edge achievements in future. Award winners are invited to spend a period of up to one year cooperating on a long-term research project with specialist colleagues at a research institution in Germany. Eaton’s research focuses on fundamental aspects of the mechanism of protein folding. More information about the award is at http://www.humboldt-foundation.de/web/humboldt-award.html. [Photograph of William Eaton taken from his website at http://www2.niddk.nih.gov/NIDDKLabs/IntramuralFaculty/EatonWilliam.htm.]

###

Christine Grady on Presidential Bioethical Commission

President Barack Obama announced his intent to appoint ten individuals to the Presidential Commission for the Study of Bioethical Issues. Among them is Christine Grady, Acting Chief of the CC Department of Bioethics. The Commission will advise the President on bioethical issues that may emerge from advances in biomedicine and related areas of science and technology. It

will work with the goal of identifying and promoting policies and practices that ensure scientific research, health care delivery, and technological innovation are conducted in an ethically responsible manner. Grady's research focuses on research subject recruitment, incentives, vulnerability, and international research ethics. She is also a senior research fellow at the Kennedy Institute of Ethics and was elected as a fellow at both the American Academy of Nursing and the Hastings Center. She has previously served as a consultant to UNAIDS and the Pan American Health Organization and as a staff member to the President's Commission on HIV Infection. [Photograph of Christine Grady taken from her website at http://www.cc.nih.gov/about/SeniorStaff/christine_grady.html.]

###

Amir Gandjbakhche Elected as SPIE Fellow

Amir Gandjbakhche is among the new SPIE fellows elected this year. Fellowship in SPIE, originally denoting Society of Photographic Instrumentation Engineers, honors researchers who have made significant scientific and technical contributions in the multidisciplinary fields of optics, photonics, and imaging. Gandjbakhche, head of NICHD's Section on Analytical and Functional Biophotonics, is widely recognized for his research on quantitative optical spectroscopy and tomographic imaging of tissues. He is best known for mathematically modeling light migration in complex biological systems, such as cancer, using elements of random or stochastic modeling derived from mathematics and statistical mechanics. He was among the first in the world to demonstrate that quantitative optical properties of breast tumors can be obtained using time-domain optical mammograms using time-dependent contrast functions. He is now extending this work to fluorescent imaging of cancer cells expressing HER2 receptors. Gandjbakhche has also pioneered multimodality imaging to characterize tissue vasculature in the treatment of Kaposi's sarcoma, for which he is testing three noninvasive imaging techniques: infrared thermal imaging, laser Doppler imaging, and multispectral imaging. His work has provided quantitative imaging endpoints that can be used to monitor the effects of chemotherapy. [Photograph of Amir Gandjbakhche taken from the NICHD annual report at http://annualreport.nichd.nih.gov/safb.html.]

###

Antonina Roll-Mecak Earns Searle Foundation Fellowship

NINDS' Antonina Roll-Mecak has won a Searle Foundation fellowship. This very competitive award provides grants to universities and research centers to support the independent research of exceptional young faculty in the biomedical sciences and chemistry. Roll-Mecak's lab combines biophysical and cell biological approaches to understand the mechanism underlying intracellular organization and movement, with a focus on the microtubule cytoskeleton. The overarching scientific question she is interested in is how do biophysical properties of microtubules and their modifiers produce cell morphology and organismal

physiology? More on this at http://intra.ninds.nih.gov/rm_lab/research.html. Information on the 2009 Searle fellowship recipients is at http://www.searlescholars.net. [Photo of Antonina Roll-Mecak taken from her website.]

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Zbigniew Dauter Wins Top Honors from Polish Academy of Sciences

Zbigniew Dauter, chief of the Synchrotron Radiation Research Section in NCI's Macromolecular Crystallography Laboratory, has been decorated with the Nicolaus Copernicus Medal, the highest distinction awarded by the Polish Academy of Sciences. The award recognizes Dauter's contribution to the development of protein crystallographic methodology, in particular in the areas of phasing methods and macromolecular structure at ultimate resolution. Zbigniew Dauter is already permanently associated with the technique of quick halide soaks ("dauterization" of protein crystals), with the exploitation of weak anomalous signal (for example, of phosphorus in nucleic acid structures), and with the use of SAD phasing. He is an expert experimenter, widely known for his skills in getting the best possible diffraction data from macromolecular crystals. His lab is located at the Argonne National Laboratory in Illinois. Dauter has worked in at several synchrotron centers, such as the European Molecular Biology Laboratory in Hamburg and the National Synchrotron Light Source at Brookhaven National Laboratory, conducting structural biological research and helping external users of macromolecular crystallography beamlines. The stations that he has supervised are among the most successful beamlines in protein crystallography. Dauter has had a stunning number of collaborations, mostly because of his expertise in synchrotron data collection and structure determination. [Photo of Zbigniew Dauter taken from his web page at http://mcl1.ncifcrf.gov/dauter.html; the uppermost image depicts the front of the Copernicus Medal.]

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Gerhard Hummer, Sackler Prize in Biophysics

Gerhard Hummer, chief of the Theoretical Biophysics Section in NIDDK's Laboratory of Chemical Physics, has won the Sackler International Prize in Biophysics, awarded by Tel Aviv University. The prize rewards dedication to science, originality and excellence. Hummer won for studies of the hydrophobic effect and its contribution to protein interactions and assemblies. The main objective of his research is to understand the stability, dynamics, and function of biomolecules and their complexes using computational and theoretical methods, in close collaboration with experimental groups. Major emphasis is placed on the role of water and ions in biomolecular systems, and in particular on hydrophobic and electrostatic effects. Focus areas include theory of single-molecule experiments; channel function; peptide and protein folding; complex formation and ligand binding; proton pumping and

bioenergetics; reaction-rate calculations; and the development of new methods for biomolecular simulation and electrostatics. Hummer shares the prize with Yigong Shi of Tsinghua University in Beijing. Both scientists will receive the prize in Tel Aviv. [Photo of Gerhard Hummer taken from his web page a http://www2.niddk.nih.gov/NIDDKLabs/IntramuralFaculty/HummerGerhard.]

###

Francis Collins Wins Albany Medical Center Prize

NIH Director Francis S. Collins has been named a recipient of the Albany Medical Center Prize in Medicine and Biomedical Research for his leading role in mapping the human genome. Collins will share the honor with co-recipients Eric Lander, director of the Broad Institute at the Massachusetts Institute of Technology and Harvard University, and David Botstein, director of the Lewis-Sigler Institute for Integrative Genomics at Princeton University. "The Human Genome Project has made it possible for us to identify genetic causes of illness in a fraction of the time it used to take," Collins said. "This was truly a collaborative, international effort involving more than 2,000 scientists in six countries, working together to make that first human sequence possible. It is important to note that the Human Genome Project gave away all the data immediately. That kind of free and rapid data release has now become the standard for many other large scale collaborative projects, speeding up the application of these discoveries to clinical medicine." The NIH press release is at http://www.nih.gov/news/health/mar2010/od-10a.htm.

###

Ira Pastan Wins AMA's Government Service Award

Ira Pastan, chief of NCI CCR's Molecular Biology Laboratory has won the American Medical Association's government service award for public service. The award was presented March 2 as part of the AMA's National Advocacy Conference in Washington, D.C. Pastan's seminal work in receptor biology has resulted in many important discoveries, including new treatments for a specific type of drug-resistant Leukemia, mesothelioma and ovarian cancer. He also has been successful in identifying powerful toxins that can be used to eliminate cancer cells. Clinical trials testing his research have resulted in complete remission in patients with a drug-resistant form of Leukemia. His current research continues to focus on the use of immunotoxins to treat cancer. Pastan's influence is so far reaching that Robert Wiltrout may very well have borrowed his same pose (see below) for the CCR photo session. [Photo of Ira Pastan taken from his CCR web page at http://ccr.nci.nih.gov/staff/staff.asp?profileid=5782.]

###

Robert Wiltrout, Director of the Year

Robert Wiltrout, CCR Scientific Director and head of NCI's Experimental Therapeutics Section, has been selected as a winner of the 2010 Federal Lab Consortium (FLC) Laboratory Director of the Year award. This award is presented annually to directors who have made outstanding contributions supporting technology transfer activities at their laboratory for the previous calendar year. The award recognizes both the excellence of his efforts and his facility's technology transfer program. The award will be presented on April 29 at the FLC national meeting in Albuquerque, New Mexico. (See part 2 of the FLC winners below.) [Photo of Bob Wiltrout taken from his CCR web page at http://ccr.nci.nih.gov/staff/staff.asp?profileid=5710.]

###

NCI Nabs Three Tech-Transfer Awards

NCI has received three "Excellence in Technology Transfer Awards" from the National Federal Lab Consortium Excellence in Technology Transfer Awards. NCI is the only federal laboratory that received three awards, and this likely the largest number of NIH winners in one year, at least in recent years. The awards are: "Cell Line Bank for Cancer," Frederic Kaye et al.; "Innovative Techniques and Reagents for Improved Genetic Engineering," Donald Court et al.; and "PROSTVAC: a Therapeutic Vaccine for Treating Prostate Cancer," Dr. Jeff Schlom et al.

A team from the NIH Office of Technology Transfer and NCI's Technology Transfer Center helped in writing nominations for the FLC awards: Karen Maurey, Tom Stackhouse, Kevin Brand, Bonnie Chamberlin, Charles Salahuddin, Liz Lovoy, Courtney Silverthorn from TTC; and Sabarni Chatterjee, Surekha Vathyam, Charlene Sydnor, Sam Bish, and Mojdeh Bahar from OTT on the NCI nominations. The Award Ceremony will take place in Albuquerque in April. More information on the award is at http://www.federallabs.org/awards.

###

NIAMS' O'Shea Receives Arthritis Foundation Award

NIAMS Scientific Director John O'Shea was awarded the Arthritis Foundation's 2009 Lee C. Howley, Sr., Prize for his continued research contributions in the treatment and control of rheumatic diseases. The Howley Prize is given each year in recognition of researchers whose contributions during the previous five years have represented a significant advance in the understanding, treatment, or prevention of arthritis and rheumatic diseases. The Arthritis Foundation recognized O'Shea for his work on cytokine signal transduction and the elucidation of the roles of Janus kinases (Jaks) and STAT family transcription factors in immune cell development and differentiation.

The research of O'Shea and his colleagues led to a patent held by the NIH pertaining to targeting Jaks as a new class of immunosuppressive drugs. O'Shea developed a Cooperative Research and

Development Agreement (CRADA) with the pharmaceutical company Pfizer, which generated one such compound that is now in Phase III studies in rheumatoid arthritis. The Pfizer Jak inhibitor is also being tested in kidney transplantation, psoriasis, and inflammatory bowel disease. A number of other pharmaceutical firms have preclinical programs testing other Jak inhibitors. [Image: John O'Shea (right) receiving the Howley Prize, presented by Steven Goldring, chief scientific officer at the Hospital for Special Surgery.]

###

Framingham Heart Study Honored... Again

The American Heart Association released its list of the top 10 cardiovascular research achievements of 2009, and this includes two Framingham GWAS projects:, the CHARGE and Global BPgen publications in Nature Genetics. Framingham Director Dan Levy leads the CHARGE Blood Pressure Consortium. These studies identified specific genes associated with hypertension, a major risk factor for heart disease and stroke. The findings could significantly improve the understanding of high blood pressure and could lead to potential targeted drug therapies for preventing and treating this disease. The two consortia have joined forces and Framingham now has GWAS data in over 70,000 people and have completed *de novo* genotyping in another 80,000. The project has identified another dozen genes involved in blood pressure regulation that were not previously known. One goal for 2010, Levy said, is to begin resequencing some of these genes in Framingham participants from the extremes of the BP distributions. The 61-year-old Framingham Heart Study became part of the NIH intramural program in 2008. [Photo of Dan Levy taken from his website at http://www.framinghamheartstudy.org/invest/levy.html.]

###

Keji Zhao's Lab Behind 3rd "Hottest" Paper of 2009

The Scientist, borrowing data from ScienceWatch, has identified the top five hottest papers of 2009 by virtue of the citations they have garnered this year so far. A paper in *Cell* from Keji Zhao's lab in NHLBI's Laboratory of Molecular Immunology, with lead author Artem Barski, came in at #3 with 560 citations and counting. Although the paper, "High-resolution profiling of histone methylations in the human genome," was published in Cell in May 2007, the paper has had 299 citations so far in 2009 alone. As relayed in *The Scientist*: "This study looked at how histone modifications influence gene expression in more detail than previous attempts. Using a powerful sequencing tool called Solexa 1G, the researchers mapped more than 20 million DNA sequences associated with specific forms of histones, finding there were differences in methylation patterns between stem cells and differentiated T cells." The Scientists had highlighted this work in a 2007 article, Profiling Human Histones.

To learn more about Zhao's work, listen to his Director's Seminar Series lecture in April 2008,

“Dynamic Regulation or Mammalian Epigenomes During Development,” archived at http://videocast.nih.gov/ram/dss042508.ram. Zhao also presented at the Marshall Nirenberg tribute in November 2009, "Genes to Proteins: Decoding Genetic Information." His talk starts at about the 1:04 mark in the 5-hour videocast at http://videocast.nih.gov/ram/nirenberg111209.ram. [Photo of Keji Zhao taken from his website at http://public.nhlbi.nih.gov/Staff/Home/UserInputForPerson.aspx?OID=895.]

###

Volkow Honored by French Government

NIDA Director Nora Volkow has been awarded the International Prize from the French Institute of Health and Medical Research (Inserm) for her pioneering work in brain imaging and addiction science. She received the award at a Dec. 17 ceremony at the College of France learning center in Paris. Inserm, a government-supported biomedical research organization, is the French equivalent of the National Institutes of Health. Each year, it honors researchers for their contributions to basic and clinical research that enhance public health. Dr. Volkow's selection acknowledges her innovative imaging research showing drug addiction to be a disease of the brain that usurps the reward circuitry and leads to compulsive behaviors. [Image: Volkow in her NIDA office; origin uncertain but found at http://addiction-dirkh.blogspot.com/2009/12/q-with-nora-volkow.html.]

###

Carole Bewley, Maryland Chemist of the Year

Carole Bewley of NIDDK has been named the 2009 Maryland Chemist of the Year by the Maryland section of the American Chemical Society. The award is in acknowledgment and appreciation of her outstanding research accomplishments in natural products chemistry and in recognition of her significant contributions to marine natural products identifications and their use as antiinfectives and other medicinal agents. Bewley is a senior investigator in NIDDK’s Natural Products Chemistry Section. Her primary research interests are three-fold: (i) to carry out multi-faceted studies of biologically active natural products, also known as secondary metabolites, (ii) to design peptide and protein inhibitors and probes of HIV-1 entry, and (iii) to discover and fully characterize novel carbohydrate binding proteins from understudied sources.

The Maryland Chemist Award was established in 1962 to recognize and to honor, each year, a member of the Maryland Section for outstanding achievement in the fields of chemistry. The achievement may be in pure or applied chemistry, chemical engineering, or chemical education. Last year’s winner was Victor Marquez, chief of the NCI-CCR Laboratory of Medicinal Chemistry. [Image: Carole Bewley collecting underwater samples from the Florida Keys Marine Sanctuary, provided by Bewley.]

###

NIH Wins “Deal of Distinction” Intellectual Property Award

The NIH intramural program, through its Office of Technology Transfer, has won one of the five 2009 Deals of Distinction Awards from the Licensing Executives Society. The award was in the Industry-University-Government Interface (IUGI) Sector category. “This deal showcases the positive results that can be obtained through the cooperation/collaboration of multiple institutions, and is also a significant accomplishment in the successful licensing of a generic compound,” said Elaine White, chair of the LES UIGI Sector.

from the press releases: “The award winner... is a group of licensing agreements for the development of sodium nitrite as a repurposed pharmaceutical agent potentially effective against a number of serious medical conditions... NIH, supported by four university collaborators, was able complete exclusive license agreements with Hope Pharmaceuticals... and Aires Pharmaceuticals... to develop new treatments for conditions not well-managed by existing therapies. The license agreements were based upon the discovery by four NIH institutes [NINDS, NHLBI, CC, NIDDK]... and four universities... that low, physiological and non-toxic concentrations of sodium nitrite could be used in disease indications such as pulmonary hypertension, ischemia-reperfusion injury, hemolytic disease, hemoglobinopathies (including sickle cell disease) and cerebral vasospasm.”

###

Yu Liang Is This Year’s Salzman Award Winner

Yu Liang of the Molecular Genetics Section of NIAID’s Laboratory of Viral Diseases is the recipient of the 11th Annual Norman P. Salzman Memorial Award in Virology. This award was established to recognize outstanding research accomplishment by a postdoctoral fellow or research trainee working in the field of virology at the NIH. The award honors the 40-year career of Norman Salzman in virology research and his accomplishments in mentoring of young scientists. The award also honors the awardee’s mentor, in this case Liang’s section chief, Thomas Kristie. The award is presented by the Foundation for the National Institutes of Health and the NIH Virology Interest Group.

Liang presented a talk based on his winning abstract submission, “Inhibition of the histone demethylase LSD 1 blocks α-herpesvirus lytic replication and reactivation from latency.” He joined Kristie’s lab in 2006 to study the role of chromatin modification in determining viral immediate early gene expression. [Photo of Yu Liang courtesy of FNIH.]

###

Bezrukov Elected as APS Fellow

Sergey Bezrukov, head of NICHD's Section on Molecular Transport, was elected to Fellowship in the American Physical Society "for his seminal contributions to the physics of ion channels, thereby bridging molecular biology with physical kinetics and nonlinear dynamics by developing single-molecular methods to membrane transport and noise-facilitated signal transduction." Election to Fellowship in the American Physical Society is limited to no more than one half of one percent of the membership. The exclusive honor demonstrates the caliber of physics research performed at the NIH. Sergey joins five other APS fellows at the NIH: William Eaton (APS Biological Physics), Gerhard Hummer (APS Biological Physics), Larry Nagahara (APS Instrument & Measurement Science), Attila Szabo (APS Biological Physics) and Robert Tycko (APS Chemical Physics). Sergey's relatively recent work is highlighted at http://2007annualreport.nichd.nih.gov/smt.htm. [Photo of Sergey Bezrukov taken from his website at http://smt.nichd.nih.gov/bezrukov.htm.]

###

Got a suggestion? Send it to Christopher Wanjek.

Banner image: Dove, olive branch and the globe, suggestive of Nobel Prize award logo
Maintained by Christopher Wanjek for Dr. Michael Gottesman, DDIR
Last Modified: May 26, 2010 (or perhaps more recently)

WALS and Other Notable Lectures, Classes & Events

The Next WALS

June 2 — "Transcriptional Control of Adipogenesis and Systemic Energy Homeostasis," by Bruce Spiegelman, the Stanley J. Korsmeyer Professor of Cell Biology and Medicine at the Dana-Farber Cancer Institute/Harvard Medical School

Masur Auditorium, Building 10, 3:00–4:00 p.m. (reception to follow)

From the speaker: "In the face of an epidemic of obesity, it is crucial to understand the regulation and function of key nodes in the body's energy metabolism. Our group has identified several key regulators of fat cell differentiation and function, including the "master" regulator of fat cell differentiation, PPARg. PPARg not only controls fat cell differentiation, but is also the target of an important class of anti-diabetic compounds, the thiazolidinediones, such as rosiglitazone (Avandia) and pioglitazone (Actos). These drugs, which have both substantial clinical benefit, and some troubling side effects, are thought to act as agonist ligands for PPARg, working through PPAR response elements in target genes. In new work, we have identified an entirely new and surprising mechanism by which PPARg can control whole body insulin-sensitivity.

"Obesity induced in mice by high-fat feeding activates the protein kinase cdk5 in adipose tissues. This results in phosphorylation of the nuclear receptor PPARg, the dominant regulator of adipogenesis and fat cell gene expression, at serine 273. This modification of PPARg does not alter its adipogenic capacity, but leads to dysregulation of a large number of genes whose expression is altered in obesity, including a reduction in the expression of the insulin-sensitizing adipokine, adiponectin. The phosphorylation of PPARg by cdk5 is blocked by anti-diabetic PPARg ligands, such as rosiglitazone and MRL24. This inhibition works both *in vivo* and *in vitro*, and surprisingly, is completely independent of classical receptor transcriptional agonism. Similarly, inhibition of PPARg phosphorylation in obese patients by rosiglitazone is very tightly associated with the anti-diabetic effects of this drug. These data strongly suggest that cdk5-mediated phosphorylation of PPARg may be involved in the pathogenesis of insulin-resistance, and present an opportunity for development of an improved generation of anti-diabetic drugs through PPARg." [Photo of speaker taken from his website with a URL far too long to post.]

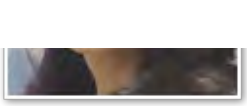
Come join your colleagues, DDIR Michael Gottesman, and NIH Director Francis Collins at these top-notch lectures, even if you *think* they are outside of your area of interest. The *next* next WALS is on June 9, "A New Virus as a Culprit in Human Cancer," by Yuan Chang of UPitt. Refer to the WALS website at http://wals.od.nih.gov for the complete schedule, lecture abstracts, speaker biographical sketches, and to sign up to follow WALS on Twitter. NIH fellows can sign up for a networking lunch with the WALS speakers.

###

CANCELLED June 9 — "A New Virus as a Culprit in Human Cancer," by Yuan Chang, American Cancer Society Research Professor at the University of Pittsburgh

Masur Auditorium, Building 10, 3:00–4:00 p.m. (reception to follow)

From the speaker: "Merkel cell polyomavirus (MCV) is a recently discovered human virus found by digital transcriptome subtraction (DTS). The virus is clonally integrated in approximately 80% of Merkel cell carcinomas (MCC), a rare but aggressive skin cancer. Similar to other polyomaviruses, MCV has a ~5,200 bp genome with a non-coding region which regulates expression of early and late genes. The early region encodes for three T antigen isoforms: Large T (LT), small T (sT), 57 kT. These proteins contain N-terminal RB-binding, DnaJ, and PP2A interacting motifs; the LT isoform further contains C-terminal origin binding and helicase domains required for viral replication. The majority of MCV-positive MCC



tumors and cell lines express truncated LT proteins which lack replication function yet retain N-terminal regulatory functions. We have develop monoclonal antibodies which show T antigen (TAg) expression in MCC tumor cells, the importance of which is underscored by TAg knock-down experiments that abolish growth in MCV-positive cell lines. This finding further strengthens the etiologic role of MCV in the MCV-positive subset of MCC tumors. Although MCV infection is common in North America, MCC is relatively uncommon and our studies suggest that this may be due to the requirement of multiple molecular events including integration of viral genome and TAg truncating mutations in a susceptible host."

Lecture Objectives: (1) Understand Digital Transcriptome Subtraction (DTS), the technique by which Merkel cell polyomavirus (MCV) was identified; (2) understand the experimental evidence for the causal association of MCV with human Merkel cell carcinoma (MCC); (3) understand the reason why, despite high prevalence infection by MCV, only rare incidences of MCC occur. [Photo provided by speaker.]

###

June 23 — "It Takes Tau to Tangle: Plaques, Tangles and Neurodegenerative Disease," by Karen Duff, Taub Institute for Research on Alzheimer's Disease at Columbia University Medical Center

Masur Auditorium, Building 10, 3:00–4:00 p.m. (reception to follow)

From the speaker: "We are exploring what goes wrong in the brains of patients with diseases such as Alzheimer's, Parkinson's, and schizophrenia, and our aim is to test therapeutic approaches that may be beneficial for the treatment, or prevention of these diseases. Our main focus is on Alzheimer's disease and the contribution of tangles to disease, especially the role of aberrant phosphorylation of specific proteins such as tau, in disease progression. We also have new projects looking at pathogenic mechanisms in Parkinson's disease (especially the role of autophagy) and the identification and investigation of a new pathway implicated in schizophrenia. In addition, we are examining the impact of diabetes on tangle formation in Alzheimer's disease. We are using several transgenic mouse models which allow us to examine, and modulate, pathways of interest. We have examined the impact of pathways involved in, for example, aberrant phosphorylation of tau protein in tangles both genetically (through crosses to other transgenic mice, or through viral induction of genes) and also pharmacologically using drugs. In the case of our work on Lithium, data generated is of direct interest to clinicians looking for non-proprietary treatments for patients, and to support clinical trials. This sort of translational neuroscience has high clinical relevance, as it covers a wide range of techniques and approaches, and it is applicable to a number of different diseases." [Photo provided by speaker.]

###

June 30 — "Regulating the Activity of MicroRNAs in Vertebrate Cells," by Joan Steitz, the Sterling Professor of Molecular Biophysics and Biochemistry at Yale University and HHMI investigator

Masur Auditorium, Building 10, 3:00–4:00 p.m. (reception to follow)

From the speaker: "RNA-protein complexes (RNPs) are important for every step of gene expression. We concentrate on RNPs of the nucleus, where the most famous small nuclear RNPs (snRNPs) participate in pre-mRNA splicing. Current efforts are aimed at understanding how the exon junction complex (EJC) is deposited after splicing and how its components relate to other nuclear events, how splicing is linked to 3'-end formation of histone mRNAs, which lack polyA tails, employs many of the same factors that are needed for the cleavage and polyadenylation of most mRNAs.

Some primate herpesviruses — Epstein-Barr virus (EBV), Herpesvirus saimiri (HVS), and Kaposi sarcoma virus (KSHV) — encode small RNAs that

associate with host cell proteins to form snRNPs. Recent investigations have studied the protein binding and nuclear localization of the EBERs of EBV, have revealed that the HSURs of HVS serve to upregulate genes that are hallmarks of T-cell activation in latently infected T cells, and have uncovered an RNA element in the PAN RNA of KSHV that counteracts a rapid nuclear RNA decay pathway and therefore provides a handle for studying a new form of nuclear mRNA surveillance.

We are investigating the roles of both proteins and micoRNAs that bind to the 3' UTR to control mRNA translation, including the surprising finding that proteins considered repressive (such as FXR1 and AGO2) can upregulate translation under certain physiological conditions. This led to the discovery that microRNAs themselves can direct either repression or activation of translation, dependent on the cell cycle. Finally, we are studying the biogenesis of microRNAs, which are fashioned from longer precursors within the cell nucleus before trimming and assembly into microRNPs that control translation in the cytoplasm." [Photo taken from Steitz's website at http://www.mbb.yale.edu/faculty/pages/steitzj.html.]

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Other Upcoming Events

CC Grand Rounds for June

Lipsett Amphitheater, Building 10, Wednesdays 12–1 p.m.

June 2: "Imaging of Localized Prostate Cancer: Prelude to Focal Therapy," by Peter Choyke, MD, Chief, Molecular Imaging Program, NCI; and "Revisiting Old Targets and Exploring New Ones in Patients with Advanced Prostate Cancer," by William L. Dahut, MD, Clinical Director, NCI

June 9: Great Teachers — Seventh Annual John Laws Decker Memorial Lecture Hospital Infections: "Rumors and Reality," by Tara Palmore, MD, Deputy Hospital Epidemiologist, CC and Staff Clinician, NIAID

June 16: "Exploring the Long-Term Outcome of Allogeneic Stem Cell Transplantation," by John Barrett MD, Chief, Allogeneic Stem Cell Transplantation Section, Hematology Branch, NHLBI; and "Bench-to-Bedside: From T Cell Homeostasis to Immunotherapy for Cancer," by Crystal L. Mackall, MD, Chief, Pediatric Oncology Branch, NCI

June 23: "The NIH Undiagnosed Disease Program," by William A. Gahl, MD, PhD, Clinical Director, NHGRI and Director, NIH Undiagnosed Disease Program

June 30: "Updates in Hepatology," by Theo Heller, MD, Staff Clinician, Liver Diseases Branch, NIDDK; and "Familial Midgut Carcinoid Tumor," by Stephen Wank, MD, Chief, Digestive Diseases Branch, NIDDK

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CCR Grand Rounds for June

Lipsett Amphitheater, Building 10, Tuesdays 8:00–9:00 a.m.

June 1: "Histone Deacetylases and Molecular Chaperones: A 'Stressful Alliance' in Cancer Cells," by Kapil Bhalla, M.D., Founding Director, MCG Cancer Center, Cecil F. Whitaker Eminent Scholar in Cancer, Georgia Research Alliance, Professor, School of Medicine, Medical College of Georgia, Augusta

June 8: No Lecture — ASCO, June 4–8 in Chicago

June 15: "Allogeneic Hematopoietic Stem Cell Transplantation: Evolution in Concepts, Revolution in Practice," by Ron Gress, M.D., Chief, Experimental Transplantation and Immunology Branch, CCR-NCI

June 22: No Lecture — NCAB Meeting June 21–23

June 29: Dan Ihde Memorial Lecture — "From Genes to Treatment," by Giuseppe Giaccone, M.D., Ph.D., Chief, Medical Oncology Branch, CCR-NCI

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June 3: 5th Annual Cancer Nanobiology Think Tank

The 5th Annual Cancer Nanobiology Think Tank will be June 3, 2010, in the Bldg. 549 Auditorium at

NCI-Frederick. The theme is “Nanoparticles for Tumor Targeting,” and the organizers are Robert Blumenthal and Jacek Capala. Extensive information including an agenda and registration is available at http://web.ncifcrf.gov/events/nanobiology/2010/default.asp. The deadline date for abstract submission is May 17. The registration deadline is June 1.

The gist: The CCR Nanobiology Program pursues an integrated, multidisciplinary program of basic and applied studies aimed at the design of nanodevices to combat cancer, AIDS and other viral diseases. Steps to achieve the goal involve (1) to understand the structure and function of biomolecules and their assemblies at the nanoscale; (2) to understand engineering principles of Nano machineries used in living cells; and (3), to use this knowledge to build multifunctional devices for preventing and curing disease. For 2010 they have centered the workshop on the theme of Nanoparticles for Tumor Targeting. In particular, they plan to focus the discussion on the benefit of adding targeting molecules to the nanoparticle platforms. The tumor-specific delivery of diagnostic and therapeutic agents by nanoparticles is crucial for their successful application. One of the most unique characteristics of nanoparticles is their “spontaneous” accumulation in the tumor tissue due to the imperfections of tumor blood vessels leading to enhanced permeability and retention effect. In addition, the nanoparticles can be conjugated with targeting agents binding specific receptors on cells within the tumor volume.

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June 8: Cancer and Mitochondrial Function

NCI will sponsor a mini-symposium, “Cancer and Mitochondrial Function,” on June 8 from 9:30 to 11:30 a.m. at Natcher, Building 45. The lectures won’t be videocast. The speakers are Douglas Green (St. Jude Children's Hospital, Memphis), Navdeep S. Chandel (Northwestern Medical School), and Nicholas C. Denko (Stanford University School of Medicine).

Because of the leading role mitochondria play in regulating bioenergetics and apoptosis, this organelle has become of paramount importance to cancer biologists seeking to understand how tumors cheat death and provide fuel for maintenance and proliferation under abnormal, often hypoxic, conditions. Recent research has suggested that some cancer cells may rely on elevated glycolytic flux coupled with the pentose phosphate pathway and ROS-stimulated MAP kinase activity to promote growth under hypoxic conditions. In fact, some tumor mutations, most notably of the TCA cycle, appear to stabilize hypoxia-inducible factor 1 (HIF1), thereby enabling the cells that harbor these mutations to grow aggressively under low oxygen. Reducing the glycolytic capacity of tumor cells by selectively destabilizing hypoxia-inducible factor 1 (HIF1) has therefore become an attractive model to arrest tumor growth.

Alternatively, blocking the glycolytic pathway directly may also prove effective at reducing tumor growth. Tumor cells also have an innate ability to forgo programmed cell death, a normal cellular process that controls cell growth and helps ensure appropriate numbers of cells are present for the specific functioning of different tissues. Cancer cells appear to evade this process by expressing high levels of GAPDH. Research has shown that in addition to promoting glycolytic production of ATP, GAPDH may also stimulate autophagy to remove the compromised mitochondria that would otherwise drive the apoptotic process. Consequently, GAPDH is also an attractive target for therapeutic evaluation. In short, the mitochondria of cancer cells may play an instrumental role in tumorigenicity, not via energy production, but by producing the intermediaries necessary to support aberrant cell growth under hypoxic conditions.

[Image: Transmission electron microscope image of a thin section cut through an area of mammalian lung tissue shows mitochondria; by Louisa Howard, in public domain.]

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June 8: Statistical Methods for Genetic Analysis of Complex Diseases

This is a NIMH Statistical Genetics search candidate presentation, June 8 from 2:00 to 3:00 p.m. in Building 40, rooms 1201 & 1203. Presenter Ruzong Fan is an Associate Professor at Texas A&M University, College Station, Texas.

###

June 9: Developmental Biology and Prevention and Treatment of Craniofacial Malformations

Yang Chai of University of Southern California will present a lecture titled "Developmental Biology and Prevention and Treatment of Craniofacial Malformations" on June 9 at 2 p.m. at the Lipsett Amphitheater. This is part of the NIDCR 2010 Seminar Series: From Basic Research to Therapy — The Latest Frontier.

from the speaker: "Transforming growth factor-beta (TGF-β) signaling regulates an array of cellular events during development and disease. Mutations in TGF-β receptors type I or II (TGFBR1 or TGFBR2) cause Loeys-Dietz syndrome in humans, which includes craniofacial malformations, such as cleft palate, calvaria and mandible defects. Previous studies suggest that excessive TGF-β activity may be involved in the pathogenesis of some of the developmental defects in patients with TGF-β receptor mutations, however, the molecular and cellular mechanisms of these defects are unknown. Our recent study shows that loss of Tgfbr2 in cranial neural crest (CNC) cells results in elevated Tgf-β2 in the palate. Tgf-β2 then binds to Tgf-β receptors III and I. This unique TGF-β receptor complex associates with adaptor protein to activate a non-canonical Tgf-β signaling cascade in which p38 MAPK is activated to regulate downstream target genes during palatogenesis. In parallel, this non-canonical TGF-β signaling is also widely used in cancer cells, therefore investigation of canonical and non-canonical TGF-β signaling holds great promise for a better understanding of the molecular regulatory mechanism of development and disease. Furthermore, our study shows that a reduction in the dosage of Tgf-β2 completely rescues the cell proliferation defect and cleft palate in Tgfbr2$^{fl/fl}$;Wnt1-Cre mice. These findings strongly suggest that the complex of Tgf-β ligand and receptor specifies the downstream signaling cascade in regulating embryogenesis. Thus, the targeted modulation of Tgf-β signaling may provide an alternative, non-surgical approach for preventing and treating congenital malformations." [Photograph of Yang Chai taken from http://www.usc.edu/uscnews/experts/161.html.]

###

June 14: Heart Rate Variability as a Measure of Sympathetic/Parasympathetic Balance

The National Center for Complementary and Alternative Medicine (NCCAM) presents this Integrative Medicine Research Lecture, "Heart Rate Variability as a Measure of Sympathetic/Parasympathetic Balance," on June 14 from 9:30 to 11:00 a.m. at the Lipsett Amphitheater, Building 10. The speakers are Richard Sloan, Professor of Behavioral Medicine, Columbia University, and David S. Goldstein, Chief of the Clinical Neurocardiology Section, NINDS. Sloan's principal work focuses on identifying the autonomic nervous system mechanisms linking psychological risk factors such as depression, hostility, and anxiety to heart disease. In addition, Sloan and colleagues have explored and criticized the purported links between religion, spirituality, and health that have appeared in popular and medical publications. Goldstein's research interests are in catecholamine systems, clinical autonomic disorders, and scientific integrative medicine. The Clinical Neurocardiology Section, which he founded and directs, carries out mainly

patient-oriented research about disorders of brain regulation of the cardiovascular system. The research emphasizes diseases of the autonomic nervous system in which the sympathetic nervous system or catecholamines play prominent roles, such as autonomic failure syndromes and neurogenetic conditions featuring abnormal catecholamine synthesis or metabolism. [Photo of Richard Sloan taken from his website.]

###

June 15: History in the NIH

This symposium features lectures by the seven Stetten fellows in the Office of History. Their presentations explore the NCI's cancer virus program in the 1970s, public responses to Leptin and obesity, nanotechnology and cancer, the NIH consensus development program, complementary and alternative medicine at the NIH, the history of psychosurgery, and the role of the NIH in the development of research ethics. The daylong event starts at 8:30 a.m. on June 15 at the Natcher Conference Center, Building 45, and won't be videocast. Refer to the meeting poster at http://history.nih.gov/about/conferences.html for the schedule of talks, and stop by to hear a few. [Click to enlarge the image of the symposium poster.]

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June 16: NIH Google Search Appliances

The NIH WAG Web Metrics Group invites you to "NIH Google Search Appliances – Functions, Features, and Reports," on June 16 from 1:00 to 3:00 p.m. at Natcher, Building 45. Many NIH ICs use Google Search Appliances (GSA) to provide "internal" or site search services. The appliances have many features and reporting capabilities that can help Communications and Web Teams understand what visitors are searching for on their Web sites. Sung Nguyen, Google Software Systems Engineer, will explain how the Google Search Appliance works in plain, non-technical language. He will also talk about the GSA's features that can improve visitors' experiences with searching NIH sites. He will describe standard and advanced reports available from Google Search Appliances. [Image: The rarely seen Google logo, courtesy of Google.]

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June 17: Report From Haiti, Bill Pape

Fogarty International, Office of AIDS Research and NIAID will host a lecture, "Report from Haiti: Rebuilding Research & Training Programs in the Aftermath of Disaster," on June 17 from 3:00 to 4:00 p.m. at Masur Auditorium, Building 10. The speaker is Jean "Bill" Pape, longtime NIH grantee and founder of GHESKIO, the world's first institution dedicated to fighting HIV/AIDS. Since the January earthquake, Pape and his GHESKIO colleagues have been providing care for about 7,000 homeless people camped on its campus in downtown Port-au-Prince. They have provided emergency surgery and rehabilitation care to 3,000 trauma victims, scaled-up tuberculosis screening and treatment for 2,000 patients, and continued HIV services for 22,000 patients. GHESKIO is also committed to continuing its research and research training activities, which have been supported by NIH for more than two decades. GHESKIO, an acronym for Groupe Haïtien d'Étude du Sarcome de Kaposi et des Infectieuses Opportunistes, has just been named the recipient of the 2010 Gates Award for Global

Health. The organization has provided continuous medical care in Haiti since 1982—never once shutting its doors or charging fees.

[Photo: A Haitian boy receives treatment at an ad hoc medical clinic at MINUSTAH's logistics base after an earthquake measuring 7 plus on the Richter scale rocked Port au Prince Haiti just before 5 p.m., January 12, 2010; photo by Logan Abassi, United Nations Development Programme.]

###

June 18: Director's Seminar Series, Yasmine Belkaid

The final lecture is this season's Director's Seminar Series is by Yasmine Belkaid, "Control of Treg induction and function by microbes," on June 18 from noon to 1 p.m. in Wilson Hall, Building 1. Belkaid is chief of NIAID's Mucosal Immunology Unit. The unit's long-term interest is in understanding the immunologic mechanisms induced by parasites to promote survival within their hosts, with the goal of developing new intervention strategies. Belkaid's work has led us to believe that, in most parasitic diseases, the existence of regulatory elements is a better predictor of the outcome of infection than is the intensity of the effector response. Her group has published extensively on this subject. [Photo: Yasmine Belkaid's lab, from left to right — David Chou, Cheng Ming Sun, Sarah Ashrad, Nicolas Bouladoux, Rebecca Blank, Jason Hall (yes, his hand is technically to the left of...) and Belkaid]

###

June 21–22: Third Annual Clinical Research Management Workshop

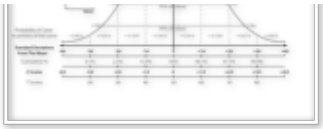
The Yale Center for Clinical Investigation, supported by NIH's National Center for Research Resources Clinical and Translational Science Awards (CTSA) program, is holding a workshop on June 21–22, 2010, to share best practices in clinical research management and support improvements in efficiency, quality and completion of clinical trials across the CTSA consortium. Speakers include NCRR Director Barbara Alving, James Doroshow of NCI, and Stephen J. Rosenfeld, President and CEO of Western Institutional Review Board.

This workshop takes place at the Bethesda North Marriott Hotel & Conference Center, 5701 Marinelli Road, and serves as a venue for representatives from CTSAs, private industry, academic societies, NIH and the FDA to develop strategies and tools to improve the clinical research management process. Designed to promote efficiency and streamline hundreds of steps throughout the research process, this workshop will provide an opportunity to network with your colleagues, share best practices and discuss new approaches in the field. **Register for this event by June 14** at http://transact.med.yale.edu/conferences/registration/registercme.asp?ID=462. For more information, visit www.ycci.yale.edu/conference/. Note no registration fee but a mandatory $12 lunch fee.

###

June 22–23: Statistical Analysis of Microarray Data

CIT will sponsor a two-part stat course on June 22 and 23, from 8:30 a.m. to 12:30 p.m. in Building 12A, room B51. The instructors are Lisa McShane and Joanna Shih of NCI. This course will provide an overview of statistical issues that arise in the design and analysis of microarray



studies. The course will begin with a discussion of the various sources of variability inherent in microarray experiments, methods of evaluating data quality, and data normalization techniques. Focus will then shift to outlining the main types of scientific questions that investigators aim to answer from microarray experiments, accompanied by an in depth discussion of proper design and analysis strategies for addressing each of the specific types of questions. The second day will be a "hands-on" demonstration of BRB Array Tools. This microarray data analysis software package will be used to demonstrate and reinforce some of the concepts discussed in the first day. Students are welcome to bring their own data for in-class exercises. [Image: This chart depicting a normal distribution is in the public domain.]

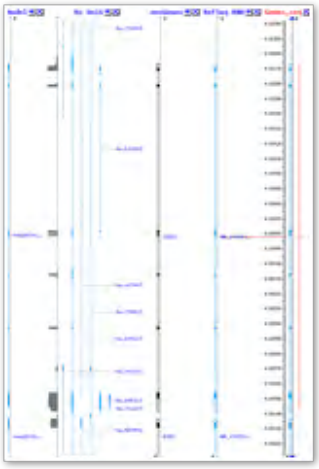
###

June 24–25: Translational Research and Vision

The last symposium in NEI's 40th Anniversary series, "Translational Research and Vision," The symposium will highlight the impacts of the human genome sequence on diagnosis and treatment of eye diseases and cover a wide range of genetic, chemical, and molecular biological approaches to treat neurodegenerative eye diseases. The event will be in Masur Auditorium, Building 10, on Thursday, June 24, from 3:00 to 5:30 p.m. and on Friday, June 25, from 8:30 a.m. to 4:15 p.m. The symposium is open to the scientific and medical community and will feature a keynote address by NIH Director Dr. Francis Collins. The full program is at http://www.nei.nih.gov/anniversary/symposia/research_agenda.asp. Note that the time and location posted on the NIH Calendar of Events seems to differ from the information in the program and on this web board.

###

July 1: TGF-β Superfamily Meeting



The TGF-beta Superfamily Scientific Interest Group will sponsor an inaugural all-day meeting on Thursday, July 1, from 9 a.m. to 4:30 p.m. at the Natcher Conference Center to highlight TGF-β-related research being done on the NIH campus. The morning sessions will feature short talks by principal investigators to provide an overview of their TGF-β-related programs with an emphasis on exciting recent developments. There will be a two-hour poster session in the afternoon to provide further details about projects. We hope that the poster session will stimulate discussions and collaborations between groups. To register for the meeting, please send your name and e-mail address to Joe Sousa at sousaj@niddk.nih.gov. The poster deadline was in May. [Image: You are here; that thin horizontal red line halfway down on the right is TGF-beta 1 in Homo Sapiens gene region 41,833,800-41,862,700 bp, generated by NCBI's Entrez Gene.]

###

July 8: NIH Graduate and Professional Fair

The NIH Graduate and Professional School Fair will provide an opportunity for NIH summer interns (especially those in college) and NIH postbacs, as well as other college students in the D.C. area, to prepare for the next step in their careers by exploring educational programs leading to the PhD, MD,

DDS, MD/PhD, and other graduate and professional degrees. The event is on July 8 from 9:00 a.m. to 3:30 p.m. at the Natcher Conference Center, Building 45.

More than 100 outstanding colleges and universities will be sending representatives of their graduate schools, medical and dental schools, schools of public health, and other biomedically relevant programs to the Fair in the hopes of recruiting NIH trainees. The day will also include workshops on creating an educational plan and interviewing plus panels on getting to graduate and professional school, MD/PhD programs, and careers in public health. Workshops will be clustered at the beginning of the day. Exhibits will open at 10:00 a.m. The fair website is at http://www.training.nih.gov/grad-fair/.

###

September 30: NINR 25th Anniversary

Please plan to join the National Institute of Nursing Research on September 30, 2010, for "Bringing Science to Life," a daylong scientific symposium commemorating a quarter century of nursing science achievements at the NIH. The event will be at the Kirschstein Auditorium at the Natcher Conference Center, Building 45, from 8:30 a.m. to 4:00 p.m. Details to come.

###

Approaching Deadlines

(not intended as complete list; contact Christopher Wanjek to add a notification)

June 1

Call For 2011 ASBMB Awards Nominations

Nominations for many awards from the American Society for Biochemistry and Molecular Biology are due on June 1. Refer to the full list at http://www.asbmb.org/Page.aspx?id=2196 and nominate online. The 2011 awards include: the **ASBMB-Merck Award**, recognizing outstanding contributions to research in biochemistry and molecular biology; the **William C. Rose Award**, recognizing outstanding contributions to biochemical and molecular biological research and a demonstrated commitment to the training of younger scientists; the **Earl and Thressa Stadtman Distinguished Scientist Award**, for an established scientist for his or her outstanding achievement in basic research in the fields encompassed by the ASBMB; the **DeLano Award for Computational Biosciences**, given to a scientist for the most accessible and innovative development or application of computer technology to enhance research in the life sciences at the molecular level; the **Avanti Award in Lipids**, recognizing outstanding research contributions in the area of lipids; the **Avanti Young Investigator Award in Lipid Research**, recognizing outstanding research contributions in the area of lipids; the **ASBMB Young Investigator Award** (formerly the ASBMB/Schering-Plough Research Institute Award), recognizing outstanding research contributions to biochemistry and molecular biology; the **ASBMB Diversity in Science Award**, to honor an outstanding scientist who has shown a strong commitment to the encouragement of under-represented minorities to enter the scientific enterprise and/or to the effective mentorship of those within it; and the **ASBMB Award for Exemplary Contributions to Education**, given annually to a scientist who encourages effective teaching and learning of biochemistry and molecular biology through his/her own teaching, leadership in education, writing, educational research, mentoring or public enlightenment.

###

June 14

Registration: Clinical Research Management Workshop

The Yale Center for Clinical Investigation, supported by NIH's National Center for Research Resources Clinical and Translational Science Awards (CTSA) program, is holding a workshop on June 21–22, 2010, to share best practices in clinical research management and support improvements in efficiency, quality and completion of clinical trials across the CTSA consortium. Speakers include NCRR Director Barbara Alving, James Doroshow of NCI, and Stephen J. Rosenfeld, President and CEO of Western Institutional Review Board.

This workshop takes place at the Bethesda North Marriott Hotel & Conference Center, 5701 Marinelli Road, and serves as a venue for representatives from CTSAs, private industry, academic societies, NIH and the FDA to develop strategies and tools to improve the clinical research

management process. Designed to promote efficiency and streamline hundreds of steps throughout the research process, this workshop will provide an opportunity to network with your colleagues, share best practices and discuss new approaches in the field. **Register for this event by June 14** at http://transact.med.yale.edu/conferences/registration/registercme.asp?ID=462. For more information, visit www.ycci.yale.edu/conference/. Note no registration fee but a mandatory $12 lunch fee.

###

June 18

Interferon and Cytokine Awards

The International Society for Interferon and Cytokine Research (ISICR) has two awards with a June 18 deadline. The Seymour and Vivian Milstein Young Investigator Awards is for ISICR members who attend the 2009 ISICR meeting in Lisbon and who have received a Ph.D or M.D. within the previous eight years. Every year up to five awards are granted to individuals who have made notable contributions to either basic or clinical research. The Christina Fleischmann Award to Young Women Investigators is similar except for gender and the candidate must have received a Ph.D or M.D. degree within the previous ten years. This award is made possible through the generosity of the Fleischmann Foundation and is dedicated to the memory of ISICR member and outstanding interferon research scientist Christina Fleischmann. Refer to http://www.isicr.org/pages/page1d.htm for more information and discuss your nomination with your Scientific Director.

###

June 30

Intramural Funding Opportunity, Dietary Supplements

The Office of Dietary Supplements (ODS) entertains proposals for extramural grants, intramural training projects, and conference co-funding on a quarterly basis. Primary consideration for support is be given to applications that deal with those dietary supplement ingredients or groups of supplements where current research is lacking or lagging or where there is a likelihood of stimulating further research. Also, there may be dietary supplements where the data appear conflicting or where there is a need to clarify research gaps and opportunities as well as assess the balance between benefits and risks. Additionally, the office will seek to co-fund activities that target special population groups where additional investigations on supplements is needed. Topics focusing on the use of supplements in reducing the risk of chronic disease are of keen interest to the ODS.

This posting on the DDIR Web Board is intended to raise awareness among NIH intramural researchers about this funding opportunity and to initiate dialog with the ODS. Please contact Dr. Rebecca Costello at costellb@od.nih.gov with questions or for a copy of the ODS referral guidelines for submission of conferences, extramural grants and intramural projects.

A complete listing of ODS co-funded grants with abstracts is available on the ODS website at http://ods.od.nih.gov or, more directly, http://ods.od.nih.gov/Funding/Grants__Contracts.aspx. Funding opportunities are ongoing.

###

November 1

2011 Sayer Vision Research Award: Call for Nominations

Over the past four years, the National Eye Institute and the Foundation for NIH have sponsored an annual Sayer Vision Research Lecture (http://www.nei.nih.gov/news/special/sayer.asp). This year, we are requesting nominations for the first Sayer Vision Research Award, which we hope to present to a qualified candidate in 2011. The recipient will also give next year's Lecture.

Tenure-track investigators from any NIH IC are eligible. Both self nominations and nominations by scientific colleagues will be accepted. The focus of the candidate's research must be relevant to any aspect of vision research, increase our understanding or enhance the care of ocular disorders or diseases. The Sayer Vision Research Award recipient will receive $10,000, to be used for any purpose that furthers the recipient's program of research. Within one year after receipt of the Award, and in any subsequent year(s) that unexpended funds remain, the recipient will be expected to provide a brief description of the use(s) to which the award was put. Nominations must include a CV, list of publications, one supportive letter, and a description of the candidate's recent accomplishments (maximum one page) and should be sent electronically by November 1, 2010 to Dr. Sarah Sohraby, NEI Deputy Scientific Director (sohrabys@nei.nih.gov). The winner of the award will be selected by a trans-NIH committee of senior scientists. [Note: This message was sent to Scientific Directors. Please coordinate with your SD to nominate.

###

Banner image: Cropped image of stained chromosomes, NIH image source unknown
Maintained by Christopher Wanjek for Dr. Michael Gottesman, DDIR
Last Modified: June 30, 2010 (or perhaps more recently)

Newly Advertised Research Positions at NIH

(listed by deadline)

All NIH jobs are posted at http://www.jobs.nih.gov. Rotating postdoc positions are listed at http://www.training.nih.gov/webforms/postdoctoral/application/adIndex.aspx.

Director
NIH Inducible Pluripotent Stem Cell Center
(deadline: June 1*)

The NIH invites applications from outstanding candidates to establish and direct an Induced Pluripotent Stem Cell (iPSC) Center in its Intramural Research Program. This new Center will be administered by the National Institute of Arthritis and Musculoskeletal and Skin Diseases. The successful candidate will hold a doctoral degree in a relevant field and be a recognized leader in the field of stem cell biology. S/he must have a strong track record in generating iPSCs and investigating their biology and potential therapeutic uses. The Director will lead the newly established iPSC Center, the mission of which is to bring this exciting new technology to clinical reality within the NIH Intramural Research Program and the NIH Clinical Center. The Director will be expected to create a world-class research group that will catalyze new approaches and uses of iPSCs and differentiated cells derived from them, and/or cells trans-differentiated from somatic cells for the entire biomedical research community. The Center will collaborate with researchers to apply iPSC technologies to support their research endeavors, with a focus on the generation of clinical applications for iPSCs and/or trans-differentiated cells, and derivation of new disease-specific cell lines. The iPSC Center will promote the use of this technology and provide researchers with training to facilitate clinical development of iPSCs. The ideal candidate will be highly interactive and collaborative, and will actively engage members of the NIH intramural and the extramural research communities to identify and develop projects that have the prospect of moving to clinical trials within the NIH Clinical Center. The Director will have the opportunity to partner with the NIH Chemical Genomics Center to utilize small molecules and siRNA technologies to optimize the generation and differentiation of iPS cells. The Director will also be provided resources to direct an intramural laboratory to develop a vibrant research program in the area of stem cell biology and its clinical applications.

Salary will be commensurate with experience. A full package of benefits, including retirement, health, life, and long-term care insurance, and a Thrift Savings Plan is available. Review of applications will begin on or about June 1, 2010, but applications will continue to be accepted until the position is filled. Interested individuals should send their CV, a vision statement for directing the NIH iPSC Center, a statement of research interests and goals, and the names of up to five references to:

Salary will be commensurate with experience. A full package of benefits, including retirement, health, life, long-term care insurance, and a Thrift Savings Plan, is available. Review of applications will begin on or about June 1, 2010, with applications being accepted until the position is filled. Interested individuals should send a CV, a vision statement for directing the NIH iPSC Center, a statement of research interests and goals, and the names of up to five references to: Ms. Wanda White at wanda.white@nih.gov or mailed by May 31 to: NIH NIAMS; Bldg 31, Room 4C-12; 31 Center Drive, MSC 2350; Bethesda, MD 20892-2350. DHHS and NIH are Equal Opportunity Employers. The NIH is dedicated to building a diverse community in its training and employment programs.

###

Branch Chief
Lister Hill National Center for Biomedical Communications, NLM
(deadline: June 15*)

The Lister Hill National Center for Biomedical Communications (LHNCBC) at the National Library of Medicine (NLM), a research component of the National Institutes of Health (NIH), is seeking an outstanding research scientist with extensive experience in natural language processing to lead the research program of its Cognitive Science Branch (CgSB). The Branch applies linguistic, statistical, and knowledge-based research and development of techniques for improving the management and computer understanding of biomedical and clinical information.

The Branch Chief will conduct research and manage development teams focused on novel and useful tools and techniques for extracting computable information from narrative text for use by clinicians, researchers, and consumers. The teams will identify and study the issues that make this problem difficult and carefully quantify their success. NLM has a long-term interest in the use of natural language processing, linguistics and machine learning. This interest originated in the need to provide search access to, and automated indexing of, the published biomedical literature. The opportunities in that space are becoming even larger with the burgeoning numbers of full text articles in PubmedCentral and the advent of electronic health records (EHR). Most clinical data stored within EHR, including visit notes, discharge summaries, operative notes, and radiology reports are also recorded as narrative (traditionally from transcribed dictation and more recently directly entered by physicians). New and effective techniques for converting this EHR information into a computable form could result in huge benefits to clinical research, quality measures, decision support and patient care improvement, and for the development of the consumer oriented Personal Health

Record (PHR).

On-going research projects in the Branch include the Indexing Initiative, which provides automated and semi-automated techniques for indexing the biomedical literature, and includes the MetaMap and Medical Text Indexer (MTI) natural language processing (NLP) tools. MetaMap translates biomedical text to UMLS Metathesaurus concepts. The MTI tool gives suggestions and assistance to humans who index the published journals. Additionally, CgSB staff developed SemRep, a tool that provides usable semantic representation of biomedical free text, and SPECIALIST, a lexical system for the biomedical domain. All of these tools are internationally recognized applications and some are used by researchers around the world. The Branch also houses the development staff for ClinicalTrials.gov, a critical information resource for consumers and researchers concerned with clinical trials in the U.S. and abroad, supports Profiles in Science, a digital library comprising the works of prominent biomedical scientists, and produces Genetics Home Reference, a rich resource for understanding how genetics affects human health.

As an active member of the Lister Hill Center senior management team, the CgSB Branch Chief works closely with the LHNCBC Director in defining the overall biomedical research and development goals and policies for the branch and the Center. The position requires a doctoral level education in one or more of the following: medicine, biomedical informatics, computer science, cognitive science or related discipline; experience and a track record in natural language processing research documented by peer reviewed publications; experience in managing research teams and projects; and peer recognition of outstanding scientific contributions. To apply, please submit your curriculum vitae, three letters of recommendation and a complete bibliography of significant publications to: Lister Hill National Center for Biomedical Communications; Attention: CgSB Branch Chief Search; Building 38A – Room 10S1004; 8600 Rockville Pike; Bethesda, MD 20894.

Salary is commensurate with research experience and accomplishments and a full Civil Service package of benefits (including retirement, health, life and long term care insurance, Thrift Savings Plan participation, etc.) is available. For further information, you may contact CgSB Search Committee Chair at (301)496-4496 or email thoma@nlm.nih.gov. Review of applications will begin on or about May 15, 2010. Applications received by June 15 will be given full consideration. Applications will be accepted until the position is filled. HHS and NIH are Equal Opportunity Employers

###

Chief
Department of Anesthesia and Surgical Services, CC
(deadline: June 15)

The National Institutes of Health (NIH) invites candidates with strong leadership and academic credentials to apply for the position of Chief, Department of Anesthesia and Surgical Services at the NIH Clinical Center, Bethesda, Md. The NIH is the nation's foremost federally-funded biomedical research institution. The NIH Clinical Center is the 232-bed hospital in which NIH intramural research protocols are conducted. The Department of Anesthesia and Surgical Services has a staff of 60 who provide complex perioperative anesthesia, conscious sedation, nursing and technical support to a wide variety of patients in support of multi-Institute research protocols. The department has 11 operating suites, including an Intraoperative Imaging suite, and contemporary robotic surgical systems.

Candidates must possess superior academic credentials with proven supervisory acumen to oversee the development of a new program in academic anesthesia and to be able to manage an academic department of anesthesia and surgical services in a complex research setting. Candidates must demonstrate the ability to build collaborative relationships and foster consensus among diverse groups, and possess the vision to redirect the department towards a more academically-based focus with a growing research enterprise. Specifically, candidates must attract, assist and support anesthesiologists who can provide complex perioperative care and collaborate with NIH Institutes in the conduct of anesthesia-related protocols. Candidates must be Board certified in Anesthesiology, and must have an active medical license (in any of the United States). U.S. citizenship is preferred, but not required.

Applications will be received until June 15, 2010. Reply with a CV, a brief statement of academic interests, and the names of six references to: David Henderson, M.D. Deputy Director for Clinical Care; National Institutes of Health Clinical Center; 10 Center Drive, Room 6-2551; Bethesda, MD 20892; or lruprecht@cc.nih.gov. The Department of Health and Human Services and NIH are equal opportunity employers.

###

Staff Scientist
Section on Biological Chemistry, NIDDK
(deadline: July 9)

The National Institute of Diabetes and Digestive and Kidney Diseases, a major research component of the NIH and the Department of Health and Human Services, is recruiting a Staff Scientist. The position will be available in Section on Biological Chemistry: http://intramural.niddk.nih.gov/research/faculty.asp?People_ID=1560

Applications are invited for a highly motivated individual to work collaboratively in an interdisciplinary group that is

studying the biosynthesis and function of mucin-type O-linked glycans. The successful candidate will ideally have an earned a Ph.D. (or equivalent degree) in biochemistry, biophysics, cell biology, molecular biology, or quantitative biology with evidence of strong computational, verbal and written skills; experience in one or more of the following as evidenced by high quality, internationally referred journals - determination of protein structure (including recombinant protein expression, purification and crystallization), molecular bio-imaging (e.g. FRET, FRAP), protein trafficking, proteomics, signaling, systems analysis of biochemical systems. The candidate will be expected to employ combinations of biochemical, cell biological, imaging and structural tools to understand how both the glycosyltransferases that assemble O-glycans and the O-glycans themselves, function at both the molecular and cellular level.

A number of relevant core facilities, including those required to produce large scale levels of recombinant proteins, solve molecular structure by X-ray crystallography, and generate transgenic and knockout models are available within NIH. The successful applicant will be expected to develop an independent line of inquiry. Initial appointment is for five years with the starting salary range of $89,033 - $123,615. Applicants should submit their curriculum vitae, copies of their 3 most important publications with a description of their contribution to each paper, a short description of future research interests, and the names, and email addresses of at least three references to: Dr. Lawrence A. Tabak; Building 31, Room 2C39; 31 Center Drive, MSC 2290; Bethesda, MD 20892-2290. Email: Lawrence.Tabak@nih.gov. Applications must be submitted no later than July 9, 2010. The NIH is dedicated to building a diverse community in its training and employment programs. DHHS and NIH are Equal Opportunity Employers.

###

Deputy Scientific Director
Intramural Clinical and Biological Research, NIAAA
(deadline: August 11)

The National Institute on Alcohol Abuse and Alcoholism (NIAAA), a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services (HHS), is seeking an exceptional candidate for the position of Deputy Scientific Director to work as an active partner with the Scientific Director in leading the intramural activities of the Division of Intramural Clinical and Biological Research (DICBR). The DICBR's research programs are broad in scope --- including basic, translational, and clinical research in such areas as integrative neuroscience, in vivo and molecular physiologic studies, metabolic control, clinical and translational research, cellular signaling, neurogenetics, and liver disease. The existing faculty is an outstanding group of internationally recognized biomedical researchers covering a wide range of basic and clinical research topics. http://www.niaaa.nih.gov/ResearchInformation/IntramuralResearch/AboutDICBR/.

This position offers a unique and exciting opportunity for the right individual to share responsibility in providing visionary leadership to an organization dedicated to uncovering new knowledge and technologies, from basic to clinical. A candidate is sought who is committed to scientific excellence, understands the intellectual benefits of collaborative approaches and applies that to identify emerging areas of opportunity and will work across the research community to design and implement strategies for successful research outcomes. The incumbent will contribute to the mission of the organization by serving as liaison between the NIAAA and outside entities in negotiating research and material transfer agreements and will contribute to cutting edge in trans-NIH scientific and clinical collaborations. In addition, the incumbent will serve as the Training Director for the DICBR assuring excellence in training and mentoring for our future scientific leaders.

Applicants must have a M.D., Ph.D., or equivalent degree, as well as senior-level research experience, knowledge of research programs in one or more of the scientific areas noted above and demonstrated successful experience in managing a complex research program or organization. The candidate should be a strong communicator with the ability to work collaboratively to solve problems and to make informed decisions. To be considered for this position, please submit a curriculum vitae, bibliography and at least three letters of reference (via .pdf or Microsoft word format only; paper applications will not be accepted) by the closing date to: L. Michelle Bennett, Ph.D.;
Search Committee Chair/Deputy Scientific Director, NHBLI; c/o Ms. Roberta Greif; niaaadepsdrecruit@mail.nih.gov

For inquiries please contact Ms. Trish Scullion via email at pscullion@mail.nih.gov or Ms. Roberta Greif @ Bertie@mail.nih.gov. The closing date for receipt of applications is August 11, 2010. The NIH encourages the application and nomination of qualified women, minorities and individuals with disabilities. The HHS and NIH are Equal Opportunity Employers.

###

Tenured or Tenure-Track Epidemiologist
Hormonal and Reproductive Epidemiology Branch, NCI DCEG
(deadline: August 15*)

The Hormonal and Reproductive Epidemiology Branch (HREB, http://dceg.cancer.gov/hreb), a component of NCI's intramural Division of Cancer Epidemiology and Genetics (DCEG), is recruiting an epidemiologist to develop an independent research program focused on one or more hormonally-related cancers (e.g., breast, prostate, endometrial, etc.). It is expected that the successful candidate will develop a distinctive interdisciplinary program that

complements ongoing investigations and builds on the existing strengths of NCI's intramural research program. Current research includes the evaluation of novel risk factors, identification of common susceptibility genetic loci, molecular profiling of tumors to evaluate etiologic heterogeneity and determinants of prognosis, identification of early markers of risk, measurement of circulating and local levels of endogenous hormones using novel assays, and assessment of other biomarkers. Candidates must have a doctorate in epidemiology, or a medical degree or doctorate in a biologically-related discipline (with additional training or post-doctoral experience in epidemiology). They must have at least two years of post-doctoral research experience and an established record of publications that demonstrates their ability to design, conduct, analyze and interpret data from molecular epidemiology studies. Candidates should have knowledge of and demonstrated capacity to apply state-of-the-art epidemiologic, statistical and laboratory methods in at least one of the following areas of research: risk prediction, mechanisms of carcinogenesis, natural history of cancer precursors, hormonal carcinogenesis, genetic susceptibility, or pathologic/molecular tumor characterization. Collaboration with biostatisticians, laboratory investigators and physicians (pathologists, radiologists and clinicians) is central to the success of our research. Candidates must document the strong communication skills that will be required to write effective research papers, present work at scientific meetings, and convey information clearly to staff, collaborators, consultants and contractors. Candidates must also be sufficiently experienced to function independently, both in the development of their own research efforts, and in the mentoring and supervision of less experienced investigators. Appropriate office space and resources will be provided.

Salary is competitive and commensurate with research experience and accomplishments, and a full Civil Service package of benefits (including retirement, health insurance, life insurance, and a thrift savings plan) is available. Candidates may be eligible for the NIH Loan Repayment Program (http://www.LRP.NIH.gov). This position is not restricted to U.S. citizens. Interested individuals should send a cover letter, curriculum vitae, brief summary of research interests, experience and future plans, copies of no more than 3 selected publications, and three letters of reference to: Ms. Judy Schwadron; Division of Cancer Epidemiology and Genetics; National Cancer Institute; 6120 Executive Blvd., Room EPS 8073; Rockville, MD 20852-7242. Or e-mail: schwadrj@mail.nih.gov. The closing date of the advertisement is August 15, 2010; however, the search will continue until a qualified candidate is found. A completed package of your application is required in order to be considered for this position. DHHS and NIH are Equal Opportunity Employers.

###

Chief, Hematology Service
Department of Laboratory Medicine, CC
(deadline: August 15*)

The National Institutes of Health (NIH) invites candidates with strong clinical, leadership, managerial and scientific credentials to apply for the position of Chief, Hematology Service, Department of Laboratory Medicine, Clinical Center, Bethesda, MD. The NIH Clinical Center is the largest hospital in the world totally dedicated to translational clinical research. This position has become available at a truly exciting time in the history of NIH.

The NIH Clinical Center's Hematology Service provides clinical research support for the innovative translational clinical research programs at the National Institutes of Health, thereby offering remarkable opportunities for scientific collaboration. The Hematology Service consists of six sections: Automation, Special Hematology, Bone Marrow Morphology and Immunohistochemistry, Coagulation, Molecular Testing and Flow Cytometry. These sections support hematology laboratory testing for all inpatient and outpatient clinical research programs involving both pediatric and adult patients. The Service has a long standing research program directed at new methods development; and collaborative and translational research linked to Institute initiatives. In addition, the Hematology Service serves as a partner in the ACGME approved Hematology fellowship program (based in the NHLBI) and the Hematopathology fellowship program (based in the NCI). The Hematology service currently consists of 38 staff members, including four physicians (two hematopathologists and two hematologists) plus the Chief of the Service.

Candidates must be a physician with board certification in pathology or hematology, with additional certification in hematopathology or extensive experience in hematopathology; and a current medical license. He/she must also have a minimum of 10 years experience in hematology and hematopathology, as well as laboratory management experience. Candidates should demonstrate prior direct involvement in research protocols with a clinical component; as well as having a record of innovative research productivity. Salary and appointment mechanism will be commensurate with laboratory hematology, hematopathology and managerial experience; as well as scientific accomplishments.

Review of applications will begin on or about August 15, 2010, but applications will be accepted until this position is filled. Reply with a letter of interest, CV and the names of six references to Dr. Henry Masur, Chair, Hematology Search Committee, c/o Ms. Kathy Hilburn, CC, NIH, Bldg 10, Room 2C306, 10 Center Dr., MSC 1508, Bethesda, MD 20892 or hilburnk@mail.nih.gov. The Department of Health and Human Services and NIH are equal opportunity employers.

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Scientific Director

National Institute on Aging
(deadline: August 20*)

The National Institute on Aging (NIA), a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services (DHHS), is seeking exceptional candidates for the position of Scientific Director. The Scientific Director will lead and manage the NIA's Intramural Research Program (IRP) (www.grc.nia.nih.gov) which is a vibrant basic, clinical, and translational research program with a budget of approximately $113 million and a staff of over 800, including 52 independent principal investigators and approximately 250 pre/post doctoral and visiting fellows. This position is located in Baltimore, Maryland, where 90% of the staff is located with the remaining 10% located in Bethesda, Maryland.

Assisted by a Board of Scientific Counselors, an external advisory group that conducts rigorous reviews of the NIA IRP scientists and their research programs, the Scientific Director is responsible for developing and implementing an overall vision for the IRP that is consistent with the mission and strategic objectives of the NIA. This effort includes the recruitment of new faculty, managing the NIA IRP's scientific resources (including a clinical research program at a nearby hospital in Baltimore), as well as building trans-NIH scientific collaborations and participating in trans-NIH research initiatives. Applicants should be able to facilitate translation of basic research findings into clinical tools that improve the quality and/or length of life, and should be able to facilitate initiatives that bring together intra- and extramural investigators and infrastructure both within and outside of NIH.

Applicants must possess an M.D. and/or Ph.D., or equivalent degree in the biomedical sciences, with broad senior-level experience in both research and in direct administration of a research program. Applicants should be known and respected within their profession, both nationally and internationally, as distinguished individuals of outstanding scientific competence. Applicants should demonstrate through their experience that they have provided oversight for the quality, scientific productivity and management of a research facility as well as demonstrate ability to conduct a full range of research investigations related to their area of scientific discipline. Support and resources will be available to allow the Scientific Director to lead his/her own research program.

Application Process: Salary is commensurate with experience and a full package of Civil Service benefits is available including retirement, health and life insurance, long term care insurance, leave and savings plan (401 K equivalent). Questions may be addressed to Cheryl Caponiti at caponitc@mail.nih.gov or by phone at 301-451-8387. Application packages are to include a CV with bibliography and a statement addressing the qualifications and interest in the position. While the application packages will be accepted until the position is filled, the application review process will begin on August 20, 2010. All information provided by applicants will remain confidential and will not be released outside the NIA search process without a signed release from candidates.

The NIH encourages the application and nomination of qualified women, minorities, and individuals with disabilities. HHS and NIH are Equal Opportunity Employers.

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Tenure/Tenure-Track Position
Laboratory of Virology, NIAID
(deadline: August 31*)

The National Institute of Allergy and Infectious Diseases (NIAID), Division of Intramural Research (DIR), Laboratory of Virology (LV), part of NIAID's Rocky Mountain Laboratories (RML) in Hamilton, MT, seeks applicants for a tenure/tenure-track position (associate/assistant professor equivalent) to conduct independent research on viral agents requiring high or maximum containment. LV conducts high-impact, innovative scientific research on viral agents requiring high or maximum containment, including arenaviruses, bunyaviruses, filoviruses, flaviviruses, and paramyxoviruses, with the goal of developing diagnostics, vaccines, and therapeutics. Research includes studies of vector/reservoir transmission, pathogenesis, pathophysiology, and host immune responses to high containment viral pathogens.

RML's state-of-the-art facilities include an operational BSL-3 facility, a BSL-4 laboratory, and a BSL-4 animal facility that can accommodate work with both small animal and nonhuman primate models. RML also has core facilities for genomics, electron microscopy, and flow cytometry. Other RML research programs focus on prions, retroviruses, numerous pathogenic prokaryotic organisms, and pathogen transmission by arthropod vectors. RML is located in the scenic Bitterroot Valley of western Montana within easy access to some of the finest outdoor recreational opportunities in North America.

Key Requirements: Candidates must be able to develop an independent research program in viral disease immunology, supervise staff and fellows, and collaborate with RML/DIR researchers working on other infectious diseases. A preference will be given to candidates with experience in high containment work, as outlined in CDC/NIH Biosafety in Microbiological and Biomedical Laboratories (BMBL), 5th Edition. An interest in and commitment to animal model studies in a biosafety level (BSL)-4 environment is essential. Candidates must hold a Ph.D., D.V.M, or M.D. and have a minimum of three years of relevant postdoctoral experience. Independent resources including space, support personnel, and an annual budget for services, supplies, and salaries are committed to the positions. Facilities at existing NIAID field sites in Africa and Asia may be available to the incumbents. This appointment is under Title 42, and the salary is dependent on experience and qualifications.

Applicants must be U.S. citizens, resident aliens, or nonresident aliens with or eligible to obtain a valid employment-authorizing visa. Applicants must be able to fulfill, acquire, and maintain a favorable Access National Agency Check and Inquiries (ANACI) background investigation, Select Agent clearance, and other NIH biosecurity requirements. To apply, e-mail curriculum vitae, bibliography, and a two- to three-page description of your proposed research program to Felicia Braunstein at lvsearch@mail.nih.gov. In addition, three letters of recommendation must be sent directly from the referees to Dr. Kim Hasenkrug, Chair, NIAID Search Committee, c/o Felicia Braunstein at lvsearch@mail.nih.gov or 10 Center Drive, MSC 1356, Building 10, Room 4A30, Bethesda, MD 20892-1356. E-mail is preferred. The selected candidate may be asked for additional references. Applications will be reviewed starting August 31, 2010, and will be accepted until the position is filled. Please refer to ad #30 on all correspondence. For additional information on this position, contact Dr. Heinz Feldmann at feldmannh@niaid.nih.gov.

More information about LV is available at www.niaid.nih.gov/labs/aboutlabs/LV/. Find out more about DIR laboratories at www.niaid.nih.gov/about/organization/dir and about working at NIAID at http://www.niaid.nih.gov/careers. HHS, NIH, and NIAID are equal opportunity employers.

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Tenure-Track/Tenure-Eligible Investigator
Chemical Biology Laboratory, NCI CCR
(deadline: September 1*)

The Chemical Biology Laboratory (CBL), Center for Cancer Research (CCR), National Cancer Institute (NCI), National Institutes of Health (NIH), Department of Health and Human Services (DHHS) is accepting applications for the position of Tenure Track/Tenure-Eligible Investigator to develop an independent research program addressing problems at the interface of chemistry and biology. Ideal candidates will establish dynamic, collaborative programs that develop and apply chemical methods, tools and materials to define and manipulate the biological processes that impact cancer and/or AIDS. Additionally, Investigator is expected to establish an internationally recognized program and direct a research group composed of postdoctoral fellows and technicians. Of particular interest, chemists developing and implementing novel imaging tools; controlling cell fate via small molecules; and synthetic chemists developing novel methodology to enable the preparation of complex biologically active molecules.

Candidates must possess a Ph.D. in Chemistry or related Physical Science. Although this search is directed at the tenure track level, outstanding candidates at the tenured level will also be considered. The position is located at the NCI campus in Frederick, MD. This location offers state-of-the-art Chemical Biology laboratories as well as core facilities including mass spectrometry; NMR spectroscopy; protein expression and proteomics; electron, optical and small animal imaging and other advanced technologies. The Incumbent will be provided with laboratory space, research equipment, staff support, and an annual supply budget. Consideration of applicants will begin September 1, 2010 and will continue until the position is filled. Salary is competitive and is commensurate with experience and full benefits (including retirement, health insurance, life insurance, and a Thrift Savings plan). This position is not restricted to U.S. citizens.

To apply, please submit a cover letter, curriculum vitae, description of research plans (~ 5 pages), and arrange to have 3 letters of recommendation sent to: Ms. Deanna Dougherty, Administrative Officer, NCI-Frederick, P.O. Box B, Bldg. 578/6, Frederick, MD 21702-1201, Tel. 301-846-5199, Fax 301-846-6053, E-mail: dougherd@mail.nih.gov. PDF files are encouraged. This position is subject to a background investigation. The NIH is dedicated to building a diverse community in its training and employment programs. DHHS, NIH, and NCI are Equal Opportunity Employers.

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Staff Clinician
CC and NHGRI Office of Rare Diseases
(deadline: open-ended)

The NIH is seeking a general internist for a joint appointment in the Internal Medicine Consult Service (IMCS) of the Clinical Center (CC) and the Undiagnosed Diseases Program (UDP), Office of Rare Diseases, National Human Genome Research Institute and the Clinical Center. The Internal Medicine Consult Service provides advice and management for adult patients admitted to specialty services at the NIH Clinical Center. The Undiagnosed Diseases Program (UDP) is a trans-NIH initiative whose goals are to provide answers to patients with mysterious conditions that have long eluded diagnosis and to advance medical knowledge about rare and common diseases. As a physician for this rogram, the internist will have the opportunity to capitalize on resources at the nation's largest hospital devoted entirely to research.

As part of this joint program, the internist will consult with patients presenting symptoms of unknown disorders. The overall purpose of the consultations is to determine a diagnosis and/or a possible therapeutic intervention. The internist will be a key member of a collaborative team, which includes several senior attending physicians who participate in the program's clinical research. The candidate must have an M.D. or M.D/Ph.D. degree and be board certified in internal medicine or family practice, with considerable experience. Clinical expertise in the care of patients with genetic disorders and a strong interest in research are preferred. Curriculum vitae, bibliography, three letters of

reference, and selected publications should be submitted to Dr. Fred Gill at: 10 Center Drive, Building 10 (CRC), 2-2731, MSC 1517, Bethesda, MD 20892. Phone: 301 496 9397, e-mail FGill@cc.nih.gov. Salary is based on relevant experience and education. DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.

###

Tenure Track Position
Office of the Scientific Director, NEI
(deadline: open-ended)

The National Eye Institute (NEI), Office of the Scientific Director, seeks an outstanding clinician-scientist for a tenure-track position to develop an independent translational research program with focus on retinal diseases. The candidate will examine and treat patients with ophthalmic disease, and conduct clinical trials. NEI has particular interest in clinical research related to neuronal-glial interactions in retinal diseases and to genetic retinal degenerative diseases. The candidate must hold an M.D. or M.D./Ph.D. degree from a school in the US or Canada, or an equivalent degree from a foreign medical school. Candidates must be Board-certified by the American Board of Ophthalmology or Board-eligible and are expected to have completed post-residency fellowship training in Medical or Surgical Retina.

Salary is commensurate with research experience and accomplishments. A full Federal package of benefits is available (including retirement, health, life and long term care insurance, Thrift Savings Plan etc). This position will remain open until filled. Interested applicants should submit an electronic application including curriculum vitae, a detailed statement of the proposed research, copies of their five most significant publications, and three reference letters to Ms. Mica Gordon at gordonmi@nei.nih.gov. The National Eye Institute does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, marital status, disability, age, membership in an employee organization, or other non-merit factor.
DHHS and NIH are Equal Opportunity Employers. NIH is dedicated to building a diverse community in its training and employment. NIH is a part of the U.S. Department of Health and Human Services.

###

Research Scientist
Laboratory of Sensorimotor Research, NEI
(deadline: open-ended)

The intramural program of the National Eye Institute invites applications for a position as a research scientist within the Laboratory of Sensorimotor Research. This position may be either tenured, or tenure track with conversion to tenure anytime within six years. Applicants will be expected to establish an independent research program related to understanding the neurobiology of the visual and/or oculomotor system.

The Laboratory of Sensorimotor Research is devoted to understanding the organization of the brain related to the control of eye movements and visual perception. It has excellent facilities for the study of these systems in awake behaving primates, including dedicated computer systems, a machine shop, an electronics shop, and a histology lab. The Laboratory also provides the opportunity to collaborate on studies of human patients with diseases related to the visual and oculomotor systems. Although the Laboratory of Sensorimotor Research has historically studied primates, scientists using other species to study systems-level organization in ways not currently possible in primates will also be considered. Applicants should have a PhD or an MD/PhD and an outstanding record of accomplishments in visual or visuomotor systems neuroscience. This position will remain open until filled. Candidates should send a brief cover letter, curriculum vitae, bibliography, a one- or two-page statement of current research interests, copies of five recent, relevant publications, and three letters of recommendation to Okihide Hikosaka, Search Committee Chair, Building 49, Room 2A50, NIH, Bethesda, MD 20892-4435. DHHS and NIH are Equal Opportunity Employers.

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Chief
Parkinson Clinic, NINDS
(deadline: open-ended)

The Office of the Clinical Director of the National Institute of Neurological Disorders and Stroke, NIH, is searching for a board-certified Neurologist for the position of Chief of the Parkinson Clinic. The Parkinson Clinic, at the NIH Clinical Research Center in Bethesda, Maryland, evaluates patients with Parkinson Disease, provides patients as needed to investigators in all NIH institutes, participates in diagnostic and therapeutic protocols, and conducts collaborative research with investigators interested in Parkinson disease at NIH. The NIH Clinical Research Center is a dedicated research hospital that is home to one of the largest and most active clinical research environments in the world. The successful candidate will be expected to develop strong collaborative interactions with NIH clinical investigators.

Applicants must have an unrestricted U.S. medical license, board certification in Neurology, and subspecialty training in Movement Disorders. Experience with deep brain stimulation is required. The appointment will be as a federal employee in the Staff Clinician series (Title 42), with salary $89,000-150,000 commensurate with experience, and federal employee benefits. Applicants should send curriculum vitae, cover letter, and three letters of reference to: Dr. Mary Kay Floeter, c/o Caren Collins, Office of the Clinical Director, NINDS, NIH, Building 10 Room 7C103, Bethesda, MD 20892-1430; or to collinsca@ninds.nih.gov. Applications will be accepted until the position is filled. HHS and NIH are Equal Opportunity Employers. All positions subject to background check

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Chief
Electromyography Section, NINDS
(deadline: open-ended)

The Office of the Clinical Director of the National Institute of Neurological Disorders and Stroke, NIH is searching for a board-certified Neurologist for the position of Chief of the Electromyography Section. The EMG Section provides electrodiagnostic services and neuromuscular consultations to investigators engaged in patient-oriented research in the NIH Clinical Research Center in Bethesda, Maryland. The NIH Clinical Research Center is a dedicated research hospital that is home to one of the largest and most active clinical research environments in the world. The successful candidate will be expected to develop strong collaborative interactions with NINDS clinical investigators. Applicants must have an unrestricted U.S. medical license, board certification in Neurology, and subspecialty certification or eligibility in Clinical Neurophysiology-EMG or in Neuromuscular Medicine. Muscle biopsy expertise is preferred. The appointment will be as a federal employee in the Staff Clinician series (Title 42), with salary $89-150,000 commensurate with experience, and federal employee benefits. Applicants should send a curriculum vitae, cover letter, and three letters of reference to: Dr. Mary Kay Floeter, c/o Caren Collins, Office of the Clinical Director, NINDS, NIH, Building 10 Room 7C103, Bethesda, MD 20892-1430; or to collinsca@ninds.nih.gov. Applications will be accepted until the position is filled. HHS and NIH are Equal Opportunity Employers.

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Systems Biology/Bioinformatics Staff Scientist
Neuro-Oncology Branch, NCI-NINDS
(deadline: open-ended)

The Neuro-Oncology Branch, a trans-institute program of the National Cancer Institute and the National Institute of Neurological Disorders and Stroke of the National Institutes of Health is seeking an outstanding candidate to work in the area of cancer genomics, bioinformatics and systems biology, particularly on computational modeling of signaling and gene networks in cancer cells. Ongoing projects include the integration of -omics and clinical data in the exploration of signaling and transcriptional networks that govern cell differentiation, proliferation and migration in primary brain tumors, cancer tumor stem cells and normal embryonic neural stem cells and the translation of those discoveries to patients through the highly integrated clinical brain tumor research program. Applicants should have a strong background in mathematical and computational modeling and be expected to carry out an interdisciplinary project with experimental groups.

The Staff Scientist candidate will take a lead role in the mentorship and scientific management of a team of bioinformatics research fellows. The following skills and qualifications are required: 1) PhD in computer science, mathematics, bioinformatics, or related fields, and at least 3 years of post-doctoral training in bioinformatics and/or systems biology; 2) experience in machine learning and network generation algorithms; 3) basic knowledge of cell/molecular biology; 4) experience in genome-wide genetic and gene expression data analysis.

Please send curriculum vitae, statement of research interests and two letters of reference to: Howard A. Fine, Chief; Neuro-Oncology Branch, National Cancer Institute; MSC 8200, Room 225; 9030 Old Georgetown Road; Bethesda, MD 20892-8200 or to smithj9@mail.nih.gov. Candidates may be U.S. citizens, resident aliens, or nonresident aliens. DHHS, NIH, the National Cancer Institute and the National Institute of Neurological Disorders and Stroke are Equal Employment Opportunity and Affirmative Action employers that value and foster diversity throughout the entire organization.

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Chief
Laboratory of Computational Medicine, NEI
(deadline: open-ended)

The NEI seeks to develop a new program in computational analysis that fully employs human genomic, transcriptomic, proteomic, metabolomic, neurophysiological and clinical data sets to reconstruct biological networks characteristic of normal and disease states. The magnitude, diversity, rich information content, and hierarchical connectivity of these data sets require the utilization and development of novel quantitative tools. The goal is to

understand human disease at a molecular level in order to develop mechanism-based therapeutic interventions.

We invite applications for head of a new laboratory of Computational Medicine within the NEI Intramural Research Program. This initiative seeks to integrate and translate knowledge from genetics and biology to a wide range of disease processes using systems, network, statistical and bioinformatics approaches.

* Examples in ocular biology amenable to a systems approach would include neuro-immune interactions, gene regulatory networks during disease pathogenesis, protein interaction pathways, neuron-glial-vascular biological networks in the retina, neuronal networks in the CNS, and developmental conditions and disorders.

* The research program has interest in developing novel computational methodologies for analyzing large genetic, biological, biomedical, neuronal, and functional data sets. Particular attention will be paid to genotype-phenotype correlations, gene-gene and gene-environment interactions. In parallel, we will actively seek to develop disease intermediate phenotypes that reflect the underlying biology and pathophysiology of disease.

* Data sets from large clinical trials, genetic studies (including GWAS), expression profiling in normal and disease conditions, and from the eyeGENE human research repository for monogenic ophthalmic diseases will be developed to reconstruct and understand ocular biological networks that link genetic perturbations, small molecule interactions, and physiological processes, to predict normal and disease states

The NEI/NIH provides an exceptional environment of dedicated scientists as well as a wide range of resources. We currently envision that this program will be located in the newly constructed Porter Neuroscience complex that houses a diverse set of investigators from many different Institutes. The successful candidate will be expected to recruit tenure-track faculty in areas that may include computational medicine or neuroscience, network biology, genetic or molecular epidemiology, cell and molecular biology, statistical genetics, bioinformatics, and biostatistics into the new Laboratory of Computational Medicine. Applicants should have a MD, MD/PhD or PhD and an outstanding record of accomplishments in genetics, epidemiology, neuroscience, cell and molecular biology, biostatistics, or a related quantitative discipline. Senior scientists would have the opportunity to maintain their participation in existing collaborative research in non-eye diseases if desired.

This position will remain open until filled. Applicants should submit curriculum vitae, bibliography, copies of their five most significant publications, a summary of research accomplishments, names of three references, and a detailed experimental plan for the development of this program. These materials should be sent to: The Office of the Scientific Director, National Eye Institute, Attention: Ms. Mica Gordon (gordonmi@nei.nih.gov), NIH Building 31, 31 Center Drive, Room 6A22, Bethesda, MD, 20892. The National Eye Institute does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, marital status, disability, age, membership in an employee organization, or other non-merit factor. DHHS and NIH are Equal Opportunity Employers.

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Tenure-Track Investigator Positions
Neurobiology-Neurodegeneration & Repair Laboratory, NEI
(deadline: open-ended)

The Neurobiology-Neurodegeneration & Repair Laboratory (N-NRL) aims to facilitate translational research for treatment of retinal diseases by delineating fundamental mechanisms in development, aging and disease pathogenesis (www.nei.nih.gov/intramural/nnrl.asp). We are seeking outstanding scientists who can establish innovative research programs in human genetics or developmental neurobiology with a focus on retinal biology and/or disease. Stem cell biology, synaptogenesis, statistical genetics and systems/network-based approaches are of special program relevance. Scientists with excellent training in diverse disciplines of biology and medicine are especially encouraged to apply. The candidates should have M.D. and/or Ph.D. degrees with training, experience and significant publication records in any of the relevant fields. No previous research in vision is required; however, applicants are expected to discuss future plans relevant to vision and/or blindness. Salary is commensurate with research experience and accomplishments. A full Federal package of benefits is available (including retirement, health, life and long term care insurance, etc.)

Applications will be considered as they are received. The search will continue until suitable candidates are recruited. Interested individuals should send by email: a cover letter, curriculum vitae, a brief summary of research accomplishments and future goals, three significant publications, and letters from three references to: NEI-NNRL Tenure Track Search Committee; National Eye Institute, NIH; NEITTSC@nei.nih.gov; Fax: 301-480-1769. The National Eye Institute does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, marital status, disability, age, membership in an employee organization, or other non-merit factor. DHHS and NIH are Equal Opportunity Employers.

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Chief, Visuomotor Disorders Section
Laboratory of Sensorimotor Research, NEI

(deadline: open-ended)

The National Eye Institute (NEI) seeks an outstanding clinician scientist for a tenured or tenure-track position as Chief, Visuomotor Disorders Section in the Laboratory of Sensorimotor Research (LSR) in the Division of Intramural Research. This recruitment is directed towards clinicians with expertise in central disorders that affect vision and/or eye movements (including disorders of binocular function). The post offers a unique opportunity for a talented individual to provide strong and stimulating leadership in an organization dedicated to uncovering new scientific knowledge, both laboratory and clinical. We welcome the full range of candidates at all levels.

The Laboratory of Sensorimotor Research is devoted to understanding the organization of the brain related to the control of eye movements, visual perception and their disorders. The Visuomotor Disorders Section Chief is expected to create a vigorous research program dedicated to elucidating the role played by these brain mechanisms in human disease, and to explore treatments. The Chief will develop broad investigational plans, independently and in collaboration with other NEI investigators and research scientists in the United States and abroad. The Chief will examine and treat patients, as well as design, implement and conduct research and clinical protocols. An opportunity exists for the Section Chief to recruit staff and supervise training. The NEI provides an exceptional environment for clinical research including the infrastructure necessary for patient recruitment, a clinical protocol development group, and a Contract Research Organization that provides statistical and epidemiological expertise, data management and analysis, study monitoring, regulatory guidance, and overall operational support. The NIH Clinical Center provides additional access to exceptionally broad medical and diagnostic resources. In addition, the LSR provides exceptional support for more specialized needs, such as the measurement of eye movements and computational analysis/modeling.

The position requires an ability to integrate basic, clinical and translational research, and create an intellectual synergy and an environment for state-of-the art patient care for those suffering from visual dysfunction. At a minimum, candidates should have a Doctor of Medicine degree from a school in the U.S. or Canada approved by a recognized accrediting body in the year of the applicant's graduation, or a Doctor of Medicine or equivalent degree from a foreign medical school which provided education and medical knowledge substantially equivalent to accredited schools in the United States. Candidates should be Board-certified, board eligible or equivalent, have direct clinical experience. Salary is commensurate with research experience and accomplishments. A full Federal package of benefits is available (including retirement, health, life and long term care insurance, Thrift Savings Plan etc). Applicants should submit curriculum vitae, bibliography, copies of their five most significant publications, a summary of research accomplishments and three reference letters. Applicants should also submit a written statement with their perspective on the needs and opportunities necessary to move from the basic understanding of brain mechanisms supporting vision and eye movements to clinical therapeutic interventions and improved patient care. This statement should indicate how the applicant's particular expertise and background could contribute to this transition. Applications should be sent to: Mica Gordon, Executive Assistant, Office of the Scientific Director, National Eye Institute, Building 31, Room 6A22, 31 Center Drive, Bethesda, MD 20892; Tel: 301-451-6763, Email: gordonmi@nei.nih.gov. NIH is dedicated to building a diverse community in its training and employment. NIH is a part of the U.S. Department of Health and Human Services.

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An asterisk next to the closing date in the postings above indicates that applications will continue to be accepted and considered until the position is filled.

Below are such positions that still might be accepting applications, listed by the most recent.

Director
NIH Inducible Pluripotent Stem Cell Center

The NIH invites applications from outstanding candidates to establish and direct an Induced Pluripotent Stem Cell (iPSC) Center in its Intramural Research Program. This new Center will be administered by the National Institute of Arthritis and Musculoskeletal and Skin Diseases. The successful candidate will hold a doctoral degree in a relevant field and be a recognized leader in the field of stem cell biology. S/he must have a strong track record in generating iPSCs and investigating their biology and potential therapeutic uses. The Director will lead the newly established iPSC Center, the mission of which is to bring this exciting new technology to clinical reality within the NIH Intramural Research Program and the NIH Clinical Center. The Director will be expected to create a world-class research group that will catalyze new approaches and uses of iPSCs and differentiated cells derived from them, and/or cells trans-differentiated from somatic cells for the entire biomedical research community. The Center will collaborate with

researchers to apply iPSC technologies to support their research endeavors, with a focus on the generation of clinical applications for iPSCs and/or trans-differentiated cells, and derivation of new disease-specific cell lines. The iPSC Center will promote the use of this technology and provide researchers with training to facilitate clinical development of iPSCs. The ideal candidate will be highly interactive and collaborative, and will actively engage members of the NIH intramural and the extramural research communities to identify and develop projects that have the prospect of moving to clinical trials within the NIH Clinical Center. The Director will have the opportunity to partner with the NIH Chemical Genomics Center to utilize small molecules and siRNA technologies to optimize the generation and differentiation of iPS cells. The Director will also be provided resources to direct an intramural laboratory to develop a vibrant research program in the area of stem cell biology and its clinical applications.

Salary will be commensurate with experience. A full package of benefits, including retirement, health, life, and long-term care insurance, and a Thrift Savings Plan is available. Review of applications will begin on or about June 1, 2010, but applications will continue to be accepted until the position is filled. Interested individuals should send their CV, a vision statement for directing the NIH iPSC Center, a statement of research interests and goals, and the names of up to five references to:

Salary will be commensurate with experience. A full package of benefits, including retirement, health, life, long-term care insurance, and a Thrift Savings Plan, is available. Review of applications will begin on or about June 1, 2010, with applications being accepted until the position is filled. Interested individuals should send a CV, a vision statement for directing the NIH iPSC Center, a statement of research interests and goals, and the names of up to five references to: Ms. Wanda White at wanda.white@nih.gov or mailed by May 31 to: NIH NIAMS; Bldg 31, Room 4C-12; 31 Center Drive, MSC 2350; Bethesda, MD 20892-2350. DHHS and NIH are Equal Opportunity Employers. The NIH is dedicated to building a diverse community in its training and employment programs.

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Staff Scientist / Animal Program Director
National Institute on Aging

The National Institute on Aging (NIA), a major research component of the National Institutes of Health (NIH) and Department of Health and Human Services (DHHS), is recruiting for a Staff Scientist-Facility Head who will serve as the Animal Program Director for the NIA Intramural Research Program (IRP). The Animal Program Director (APD) will work closely with the Chief of the Comparative Medicine Section, and will serve as the Attending Veterinarian for the NIA Animal Care and Use Committee. The APD will provide support for the animal research programs in the Institute, studying animal models of development and aging, and interventions to prevent or alleviate aging-related deficits. The supervisory and regulatory responsibilities of this position require the applicant to hold a veterinary degree (D.V.M., V.M.D., or equivalent degree) with certification or eligibility for board certification in laboratory animal medicine or veterinary pathology.

The APD will be responsible for the clinical and regulatory aspects of the animal program including continued accreditation by AAALAC. The APD will provide veterinary expertise (e.g., clinical, surgical, pathology) and training to investigators, animal care, and technical staff in the form of formal instruction and ongoing guidance. The incumbent will perform animal surgery and teach appropriate procedures to animal care and technical staff. Familiarity with re-derivation and cryopreservation techniques as well as diagnostic testing is desired. The incumbent will take primary responsibility for the clinical aspects of the animal program and will oversee animal health surveillance and maintain both a barrier facility and a quarantine area. Applicants must have a proven record of management of an animal research program and demonstrated experience with the regulatory aspects of animal welfare. The expertise and experience should include, but not be limited to interaction and cooperation with scientific staff in a manner that promotes and facilitates their scientific programs.

Salary is commensurate with experience and accomplishments. The salary range for Staff Scientists is $89,033 - $173,826. A full Civil Service package of benefits (including retirement, health, life and long term care insurance, Thrift Savings Plan, etc.) is available. Additional information regarding the NIA, IRP and the RRB is available at the following websites: http://www.grc.nia.nih.gov and http://grc.nia.nih.gov/branches/rrb/rrb.htm . To apply: Please send a cover letter, curriculum vitae, bibliography, statement of research interests, and three letters of recommendation to: Peggy Grothe, Intramural Program Specialist; Office of the Scientific Director; National Institute on Aging, 251 Bayview Boulevard, Suite 100-Room 04C232, Baltimore, MD 21224-6825. Position will remain open until filled; however, application reviews will begin May 1, 2010. Please include the following vacancy number in all correspondence: Vacancy # NIA-IRP-10-02. If additional information is needed, please call 410-558-8012 or email: grothep@mail.nih.gov. DHHS and NIH are Equal Opportunity Employers.

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Tenure-Track or Tenured Clinical Investigator
Dermatology Branch, NCI CCR

The Dermatology Branch, Center for Cancer Research, National Cancer Institute is a national leader in investigative dermatology, cutaneous biology and cutaneous immunology. We are seeking an outstanding tenure-track or tenure-eligible clinical investigator to carry out original, independent, and innovative clinic-based studies in a stimulating research environment. The Center for Cancer Research (CCR) is the largest intramural research component of the National Cancer Institute (NCI). CCR's enabling infrastructure facilitates clinical studies at the NIH Clinical Research Center, the world's

largest dedicated clinical research complex; provides extensive opportunities for collaboration; and allows scientists and clinicians to undertake high-risk, high impact laboratory and clinical investigations. Investigators are supported by a wide array of intellectual and technological research resources, including dedicated, high-quality technology core areas such as flow cytometry, genomics/DNA sequencing, arrays/molecular profiling, and human genetics/bioinformatics as well as requisite clinical research infrastructure. For an overview of the CCR, please visit http://ccr.cancer.gov/.

Applicants must have an M.D. degree and be Board-certified in Dermatology. The successful candidate will have expertise and a record of achievement in an important area of contemporary clinical biomedical research that is relevant to skin diseases. The incumbent will direct an independent, clinical research program including clinical fellows, research nurses and other support personnel funded by the NCI Center for Cancer Research. Salary is competitive and commensurate with research experience and accomplishments, and a full Civil Service package of benefits (including retirement, health insurance, life insurance, and Thrift Savings Plan) is available. Candidates may be eligible for the NIH Loan Repayment Program. This position is not restricted to U.S. citizens, although the incumbent must be eligible to be credentialed to practice medicine in the NIH Clinical Research Center.

Applications will be reviewed starting April 1, 2010, and will be accepted until the position is filled. Interested individuals should submit a cover letter, curriculum vitae, and a brief statement of research interests and future plans (1-2 pages) electronically to Ms. Sallie Baird (sbaird@mail.nih.gov) or by mail to: Dr. Brigitte Widemann, Dermatology Branch; Center for Cancer Research, NCI ; c/o Ms. Sallie Baird, Executive Secretary; 9000 Rockville Pike; Building 10, Room 12N238 MSC 1908; Bethesda, MD 20892-1908. The Dermatology Branch is located on the campus of the National Institutes of Health in Bethesda, Maryland. DHHS, NIH and NCI are Equal Opportunity Employers. The NIH is dedicated to building a diverse community in its training and employment programs.

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Tenure-Track Investigator
Statistical Genetics, NIMH

The Division of Intramural Research Programs (DIRP), National Institute of Mental Health (NIMH), National Institutes of Health (NIH), seeks a highly accomplished Tenure Track Investigator to develop an independent research program in statistical genetics. (Applications from tenured investigators will be considered.) The candidate will have the opportunity for collaboration with scientists in diverse research areas in genetics (e.g., genetic epidemiology, biostatistics, statistical genetics, molecular genetics), as well as neuroscience and relevant clinical disciplines.

The position comes with a budget and staff. The strong scientific environment and outstanding resources at NIMH make this a unique opportunity for a high-achieving scientist. The position also offers unparalleled opportunities for interdisciplinary collaborations with scientists throughout the NIH. The successful candidate will be expected to strengthen the current program by establishing a program in statistical genetics that applies and develops statistical methods to analyze the role of genes in the etiology of complex disorders, particularly neuropsychiatric disorders. Applicants should have a Ph.D. in statistics, population genetics, mathematics, genetic epidemiology, or related fields. The applicant should have experience and interest in statistical analysis of human genetic data, and in developing new methods or adapting traditional statistical methods to identify the role of genes in the etiology of complex disorders.

Salary is commensurate with experience and accomplishments, and a full Civil Service package of benefits (including retirement, health, life, and long-term care insurance, as well as a Thrift Savings Plan, etc.) is available. NIMH is a major research component of the National Institutes of Health and the Department of Health and Human Services, which have nationwide responsibility for improving the health and well-being of all Americans. Interested applicants should send curriculum vitae, bibliography, statement of research interests, accomplishments, and goals, together with 3 letters of reference to: Chair, Search Committee for Statistical Geneticist, NIMH, NIH, Bldg. 10, Rm. 4N-222, 9000 Rockville Pike, Bethesda, MD 20892; or e-mail to: steyerm@mail.nih.gov Review of applications will begin March 31, 2010, but applications will continue to be accepted and considered until the position is filled. NIH and DHHS are Equal Opportunity Employers.

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Scientific Director
Division of Intramural Research, NHGRI

The National Human Genome Research Institute (NHGRI), a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services (DHHS), seeks to identify an outstanding Scientific Director to lead its Division of Intramural Research), located in Bethesda, Maryland. The NHGRI Scientific Director leads a basic and clinical research program that has consistently been at the forefront of scientific innovation, developing a variety of research approaches that have accelerated the understanding of the molecular basis of human disease. The Scientific Director is responsible for an annual budget exceeding $100 million and a staff of ~550. In addition to providing scientific and administrative leadership of this premier research enterprise, the Scientific Director is expected to be an internationally recognized and highly accomplished researcher in genetics and/or genomics.

This position offers a unique and exciting opportunity to develop and implement an overall vision for the NHGRI/DIR that is consistent with the mission and strategic objectives of the Institute. The Scientific Director is responsible for the recruitment

and professional development of the NHGRI research faculty. S/he plays a key role in creating and maintaining a nurturing research environment that encourages creativity, collaboration among scientists from different disciplines, effective training of students and postdoctoral fellows, and efficient utilization of common resources. The ability to develop productive interactions among NHGRI investigators, other NIH Institutes, and the research community at large is critical, as is the ability to serve as a spokesperson for NHGRI/DIR research. Applicants must have an M.D. and/or Ph.D or equivalent degree in the biomedical sciences, as well as a broad knowledge of the field of human genetics and genomics and a compelling vision for the future of the field, including clinical applications. S/he must have proven experience in directing and managing a scientific research program, with well-honed administrative and interpersonal skills to meet the demands of both research and program direction. Salary is competitive and will be commensurate with the candidate's experience. A full Federal benefit package is available, including retirement, health and life insurance, long-term care insurance, annual and sick leave, and the Thrift Savings Plan (401K equivalent). Appropriate support for an ongoing independent research program will be provided.

Interested applicants should submit a cover letter that includes a brief description of research and administrative experience, a current curriculum vitae and bibliography, names and contact information of five references, and a brief written vision for leading the NHGRI/DIR. Questions about the position and applications themselves should be sent to Ms. Ellen Rolfes via email at ellenr@exchange.nih.gov. All information provided by the candidates will remain confidential and will not be released outside the NHGRI search process without a signed release from the candidate. Applications will be reviewed starting March 1st, 2010, and will be accepted until the position is filled. DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.

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Tenure-Track or Tenured Investigators, Neurodevelopment
Division of Intramural Research Programs, NIHM

The Division of Intramural Research Programs (DIRP) of the National Institute of Mental Health (NIMH) invites applications for up to three independent tenure-track or tenured investigator positions to form a new research program that is: 1) focused on basic or translational aspects of neurodevelopment in model organisms or humans, and 2) potentially relevant to the etiology of, susceptibility to, or resilience to mental illness. Since there are many such aspects of neurodevelopment, this will be a broad search. Examples of possible areas of emphasis can be found at (http://intramural.nimh.nih.gov/careers/pd-ads/neurodev-emphasis.html). In addition, it is desired to establish a research program that capitalizes on the current resources and scientific strengths of the DIRP. These include a number of existing programs that could interface synergistically with fundamental research in developmental neuroscience. Thus, this search will favor research programs with potential interactions between applicants and current faculty. Additional information regarding existing intramural research programs can be found at http://intramural.nimh.nih.gov.

Applicants should 1) have a Ph.D. and/or M.D.; 2) show promise to be or are independent investigators with active basic or translational research interests in developmental neuroscience; 3) have a growing body of publications in this field; and, for investigators at the tenured level, 4) have national and/or international recognition; and 5) have demonstrated leadership experience developing and/or administering a research program.

Research resource packages available within the DIRP include a start-up package plus an annual budget of at least $500K. Salary is commensurate with experience and accomplishments, and a full Civil Service package of benefits (including retirement, health, life, and long-term care insurance, as well as a Thrift Savings Plan, etc.) is available. The DIRP is located on the Bethesda, MD, campus, which offers outstanding resources and unparalleled opportunities for interdisciplinary collaborations with scientists throughout the National Institutes of Health (NIH). The NIMH is a major research component of the NIH and the Department of Health and Human Services (DHHS), which have nationwide responsibility for improving the health and well-being of all Americans. Interested applicants should send curriculum vitae, bibliography, statement of research interests (including perspectives on the relevance of their current and planned research to the etiology of mental illness and current DIRP research), accomplishments, and goals, together with three letters of reference to: Dr. Howard Nash, Chair, Search Committee for Neurodevelopment, NIMH, NIH, Bldg. 10, Rm. 4N-222, 9000 Rockville Pike, Bethesda, MD 20892-1381; or e-mail to steyerm@mail.nih.gov. Review of applications will begin on or about December 18, 2009, but applications will continue to be accepted and considered until the positions are filled. Address questions to Dr. Stephen Foote at fstephen@mail.nih.gov. NIH and DHHS are Equal Opportunity Employers.

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Chief
Epidemiology Branch, NICHD

The Division of Epidemiology, Statistics and Prevention Research (DESPR) of the Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health (NIH), Health and Human Services (HHS), invites applications for the position of Senior Investigator to serve as the Chief of the Epidemiology Branch. The Epidemiology Branch is one of three intramural Branches within the DESPR, and focuses on the design and implementation of high- impact reproductive, perinatal and pediatric research, while providing mentoring opportunities for intramural research fellows and summer interns, and engaging in professional service. The Branch's current research employs innovative approaches including novel study designs, biomarkers, and genetic and nutritional methods to address a spectrum of outcomes in the areas of reproduction and development, pregnancy and its complications, fetal growth, child growth and development, and

birth defects.

The Chief directs the Branch's overall research program, provides leadership, administrative and managerial support, and conducts original and collaborative reproductive, perinatal or pediatric epidemiologic research. Candidates must have an earned doctorate in epidemiology or a closely related field or an earned medical degree with a graduate degree in epidemiology or a closely related field and substantial epidemiology research experience. The successful applicant must have international stature for his/her original and collaborative publication record in the peer-reviewed literature, demonstrated success in mentoring students and junior scientists, strong leadership and administrative skills, and evidence of professional service appropriate for an academic appointment commensurate with a tenured professor and consistent with the qualifications for tenure at the NIH. Excellent communication skills are highly valued.

The Branch Chief will be appointed to a tenured position at a salary commensurate with qualifications and experience. Full Federal benefits including leave, health and life insurance, long-term care insurance, retirement, and savings plan (401k equivalent) will be provided. Interested individuals should email a curriculum vitae plus cover letter describing professional qualifications and accomplishments, research accomplishments in the field and future interests, and contact information for three references to: Mr. Paul Errett; Administrative Officer, NICHD; 6100 Executive Blvd, Room 7B05; Rockville, MD 20852 or errettp@mail.nih.gov. Applications will be reviewed starting on December 15, 2009, but applications will be accepted until the position is filled. The HHS and NIH are Equal Opportunity Employers. Application from women, minorities and persons with disabilities are encouraged.

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Tenure-Track Investigator
Laboratory of Cell and Developmental Signaling, NCI-Frederick

The Laboratory of Cell and Developmental Signaling (LCDS), Center for Cancer Research (CCR), National Cancer Institute at Frederick (NCI), National Institutes of Health (NIH), Department of Health and Human Services (DHHS) is accepting applications for the position of a Tenure-Track Investigator to develop an independent research program focused on cancer-related signal transduction. Current LCDS laboratories employ a multi-disciplinary approach to investigate signal transduction mechanisms and pathways involved in cancer, development and human disease, with expertise in the areas of protein kinase signaling, lipid second messenger signaling, tumor suppressors, cell cycle regulation, and apoptosis. Refer to http://ccr.cancer.gov/labs/lab.asp?labid=773.

The successful recruit will be expected to establish a highly competitive research program focused on cancer-related biological processes, building on existing strengths of the LCDS. Areas of emphasis for recruitment include regulation of cell growth, cell polarity, cell migration and cell-cell contact, metastatic processes and tumor invasion, cytoskeletal dynamics, and tumor suppressor pathways. Interested candidates must have a record of high quality publications and possess strong written and oral communication skills. Candidates must also demonstrate a significant conceptual understanding of signal transduction and/or cancer cell biology and be sufficiently experienced to function independently, both in the development of a research program and in the mentoring and supervision of research fellows.

The NCI-CCR campus in Frederick, Md., offers state-of-the-art core facilities including confocal microscopy, mass spectrometry, and mouse transgenic and knockout cores, as well as drug discovery, structural biology, and other advanced technologies. The new LCDS recruit will be provided with laboratory space, research equipment, staff support, and a yearly supply budget. Salary is competitive and commensurate with research experience and accomplishments and will include a full Civil Service benefits package. The new investigator may be eligible for the NIH Loan Repayment Program. This position is not restricted to U.S. citizens; however, all candidates must have a Ph.D. and/or M.D. degree.

Interested individuals should send a cover letter, curriculum vitae, a brief summary of research experience, accomplishments and research interests and goals, copies of three publications or reprints, and three letters of reference to: Ms. Emilie Lowery, Administrative Officer, NCI-Frederick, PO Box B, Building 578, Frederick, Maryland 21702-1201, Tel. 301-846-1834, FAX 301-846-6053, E-Mail: lowerye@mail.nih.gov. Review of applications is expected to begin on December 15, 2009, but applications will be accepted until the position is filled. This position is subject to a background investigation. The NIH is dedicated to building a diverse community in its training and employment programs. DHHS, NIH, and NCI are Equal Opportunity Employers.

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Tenured or Tenure-Track
Social and Behavioral Research Branch, NHGRI

The Social and Behavioral Research Branch (SBRB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit one or two outstanding tenure-track or tenured investigators to pursue innovative, independent research in support of SBRB's goal to become one of the nation's premier research programs at the intersection of social and behavioral science and genomics. Current SBRB investigators utilize innovative approaches to address critical questions related to the interplay between social and behavioral factors and genetics. Their research programs focus on using virtual reality technology to communicate genetic risk information, understanding the nature of genetics-related communications within social networks, assessing the implications of direct-to-consumer approaches to genetic testing, developing methods to incorporate genetics into health behavior change interventions, understanding health disparities as it applies to recruitment into genetic research

studies and genetic test uptake, incorporating genetics into clinical practice, and improving clinical genetic counseling approaches. General areas of interest for this recruitment include, but are not limited to:

- Clinical decision-making
- Patient-provider communications
- Using communications to improve health (e.g., eHealth)
- Health literacy
- Social marketing
- Health disparities

The successful candidates will be able to take advantage of interactions with a highly collegial group of scientists within the Branch, NHGRI's Division of Intramural Research, and the NIH as a whole. In addition, they will have access to NHGRI's outstanding core facilities. Rank will be commensurate with qualifications. The positions include an ongoing commitment of research support and space, as well as positions for support of personnel and trainees. Candidates must have a Ph.D., M.D., Dr. P.H., or equivalent degree, as well as comprehensive, advanced training and accomplishment in one of the targeted areas. Interested applicants should send a curriculum vitae, a three-page statement of research interests, and names of three professional references to Ms. Brandye Kersey-Gray at kerseybr@mail.nih.gov. Applications will be reviewed beginning December 15, 2009 and will be accepted until the position is filled. For more information on SBRB and NHGRI's Intramural Program, please see http://www.genome.gov/DIR. Specific questions regarding the recruitment may be directed to Dr. Kevin Conway, the Search Chair, at kconway@nida.nih.gov. Questions also may be directed to Dr. Colleen McBride, the SBRB Branch Chief, at cmcbride@mail.nih.gov. DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.

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Tenure-Track PI
Medical Oncology Branch, NCI CCR

The Center for Cancer Research (CCR) of the National Cancer Institute is seeking a clinical investigator with expertise in early drug development for tenure-track or tenured translational investigator positions. The successful candidate(s) will develop and execute phase 0, 1 and early phase 2 clinical trials, translational research studies, care for patients enrolled in oncology protocols and train clinical research fellows. This is an exciting opportunity to build an internationally recognized program in developmental therapeutics research under the direction of the Chief, Medical Oncology Branch (MOB), Dr. Giuseppe Giaccone. This content area is a cornerstone of the CCR's medical oncology program. The candidate(s) selected will join a team of medical oncology researchers to conduct independent research in an environment that is highly collaborative and supportive of early drug development and translational research. The CCR's robust clinical infrastructure and wide range of core technologies and research resources, including clinical and research support staff, will be available to support the efforts of the successful candidate(s). Clinicians who are currently tenure-track or tenured principal investigators are encouraged to apply. Junior faculty with documented commitment to drug development will also be considered. Compensation will be commensurate with experience and a complete benefits package is available. For further information about the MOB, NIH, or NCI programs, faculty and training please visit our respective Web sites: http://ccr.cancer.gov/labs/lab.asp?labid=753, http://ccr.nci.nih.gov, http://www.nih.gov

Position Requirements: Applicants must be board certified or board eligible in medical oncology. All applicants should submit a letter with a statement of research interests and current curriculum vitae with complete bibliography. Review of applications will commence 1 December 2009 with the position remaining open until filled. Applications may be submitted by e-mail to colea@mail.nih.gov or mailed to: William Dahut, M.D., Chairperson; Medical Oncology Branch Search Committee; C/o Allyson Cole, Executive Secretary; Clinical Research ARC, OM, NCI; 10 Center Drive, Building 10, Room 12N-210, MSC 1904; Bethesda, MD 20892-1904. DHHS, NIH, and NCI are Equal Opportunity Employers and minorities.

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Tenure-Track Investigator
Intramural Research Program, NINDS

The Division of Intramural Research of the National Institute of Neurological Disorders and Stroke, NIH is searching for outstanding clinician-investigators for tenure-track positions in the area of clinical/translational studies of neurological disorders or stroke. The Division of Intramural Research boasts active clinical research programs in Stroke/Traumatic Brain Injury, Movement Disorders, Neuroimmunolgy, Neurogenetics, Cortical Plasticity relevant to neurological disorders and stroke, Surgical Neurology and Neuroimaging. These programs operate in one of the largest and most active clinical research environments in the world, making use of the Clinical Research Center at NIH. They also interact with a large and active basic neuroscience community which has outstanding programs in ion channel biophysics, synaptic physiology, neural circuit function, cell biology, and developmental biology. The successful individual will be expected to develop and direct an independent research program focused on clinical or translational problems that relate to the major areas of interest in the intramural program. The successful candidate will also be expected to develop strong interactions with one of the active clinical/translational programs.

The individual should have a demonstrated background and knowledge in research focused on diseases of the nervous system. Experience in application of clinical trial methodology to the study of disease mechanisms and testing new therapies

is highly desirable. The candidate will have earned a M.D. or M.D./Ph.D. degree and will have excellent scientific skills in structuring an original and productive research program using outstanding communication and collaborative abilities. Preference will be given to individuals who have a medical license in the United States, who have completed training in an accredited training program in neurology, and are either board eligible or board certified. Outstanding candidates may also be considered for a tenured position if there is a demonstrated international reputation and well-documented evidence of ongoing independent accomplishments. An individual selected for a tenure-track position is expected to build a dynamic and productive research group. Laboratory/clinical facilities, shared research facilities, research funds and salary are competitive with premier academic institutions. Applicants should send curriculum vitae, bibliography, statement of research interests, and have three letters of reference sent to: Kenneth Fischbeck, National Institute of Neurological Disorders and Stroke, c/o Nhuyen Quach, Office of the Scientific Director, Division of Intramural Research, Building 35 Room GA908, NIH, Bethesda, MD 20892 or nindsclinicalsearch@ninds.nih.gov. Review of applications is expected to begin on November 30, 2009, but applications will be accepted until the position is filled. HHS and NIH are Equal Opportunity Employers.

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Tenure-Track Investigator
Genetic Disease Research Branch, NHGRI

The Genetic Disease Research Branch (GDRB) of the National Human Genome Research Institute (NHGRI) provides unparalleled opportunities for investigators to develop world-class research programs in genetics and genomics. The Branch is pleased to announce that it is seeking to recruit a new tenure-track investigator to pursue innovative, independent research as part of this group of highly interactive and supportive investigators. The successful candidate should have an interest in developing a research program that integrates clinical research with genetic or genomic approaches to understand the mechanisms of developmental processes or human disease. We welcome applications from clinicians with a wide range of backgrounds and disciplines.

Current GDRB faculty members use a variety of approaches to study the regulation and function of genes involved in development and homeostasis in humans and model organisms, with the goal of providing insight into human diseases. We welcome applicants with human disease-oriented research interests and approaches that complement those of our current Branch faculty. The successful candidate will take advantage of interactions with a highly collegial group of scientists within NHGRI and on the NIH campus as a whole. In addition, they will have access to NHGRI's outstanding core laboratories and the unparalleled resources of the NIH Clinical Center. This position includes a generous start-up allowance, an ongoing commitment of research space, laboratory resources, and positions for personnel and trainees. Candidates should have an M.D., an M.D.-Ph.D., or equivalent degree, as well as advanced training and a record of accomplishments. Candidates with Ph.D.s who have experience organizing or supervising integrated basic and clinical research projects are also eligible. Such candidates should contact the Search Committee Chair or Branch Chief prior to submitting a formal application. Interested applicants should submit their curriculum vitae, a three-page description of proposed research, and three letters of recommendation through our online application system, at http://research.nhgri.nih.gov/apply.

Applications will be reviewed starting Monday, November 23, 2009 and will be accepted until the position is filled. For more information on GDRB and NHGRI's Intramural Program, please see http://genome.gov/DIR. Specific questions regarding the recruitment may be directed to Dr. William Pavan, the Search Chair, at bpavan@nhgri.nih.gov. Questions may also be directed to Dr. Leslie Biesecker, the GDRB Branch Chief, at leslieb@nhgri.nih.gov. DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.

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Scientific Director
Intramural Research Program, NIDA

The National Institute on Drug Abuse (NIDA), a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services (DHHS), is seeking exceptional candidates for the position of Scientific Director, Intramural Research Program (IRP). The Scientific Director, IRP will lead and manage a vibrant basic, behavioral and clinical research program with a budget of approximately $78 million and a staff of over 480, including 28 independent principal investigators and approximately 78 pre/post doctoral and visiting fellows (http://www.drugabuse.gov/DIR/).

Assisted by a Board of Scientific Counselors, an external advisory group that undertakes rigorous reviews of the NIDA intramural research program scientists and their research programs, the Scientific Director is responsible for developing and implementing an overall vision for the IRP that is consistent with the mission and strategic objectives of the NIDA. This effort includes the recruitment of new faculty, managing the NIDA IRP's scientific resources (including a vivarium, an off-site clinical residential facility, and an 80-slot treatment research program) as well as building trans-NIH scientific collaborations and participating in trans-NIH research initiatives. Applicants should be able to facilitate translation of basic neuroscience of addiction into clinically useful treatments, and should be able to facilitate initiatives that bring together intra- and extramural investigators and infrastructure both within and outside of NIH. Applicants must have an M.D. and/or Ph.D. degree in the biomedical sciences, with broad senior-level experience in both research and in direct administration of a research program. Applicants should be known and respected within their profession, both nationally and internationally, as distinguished individuals of outstanding scientific competence. Support and resources are also available to allow the Scientific Director to lead his/her own research program.

Application Process: Salary is commensurate with experience and a full package of Civil Service benefits is available including retirement, health and life insurance, long term care insurance, leave and savings plan (401 K equivalent). Interested candidates should send a letter of interest, including a brief description of research and administrative experience, CV, bibliography, and a list of up to five individuals who can serve as references to: Stephanie Jones, Office of Human Resources, National Institutes of Health: NIDASDSearch@nida.nih.gov; Phone# 919-541-7913. For further information about the position, please contact the search committee chair: Eric Green, M.D., Ph.D. by email: egreen@nhgri.nih.gov or telephone 301.402.2023. Applications will be reviewed starting October 1, 2009, and will be accepted until the position is filled. All information provided by applicants will remain confidential and will not be released outside the NIDA search process without a signed release from candidates. The NIH encourages the application and nomination of qualified women, minorities and individuals with disabilities. HHS and NIH are Equal Opportunity Employers.

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Tenured or Tenure-Track
Clinical Genetics Branch, DCEG NCI

The Clinical Genetics Branch (CGB) of NCI's Division of Cancer Epidemiology and Genetics (DCEG), is seeking two enthusiastic, innovative scientific investigators with at least 3 years' post-doctoral expertise and experience in human cancer genetics. Doctoral degree is mandatory; if clinically-trained, experience or training in oncology or genetics, is required. PhD-prepared candidates should be trained in epidemiology, statistics, genetics or behavioral science (clinical psychology preferred, but not required). This is NOT a laboratory-based position. Prior laboratory experience and a desire to collaborate with laboratory investigators is highly-desirable, although not mandatory. No laboratory resources are allocated to either of these positions.

Programmatic opportunities are broad; scientists with expertise in clinical research, oncology, genetics, hereditary cancer syndromes, pharmacogenetics, cancer prevention, epidemiology and/or behavioral/psychosocial research are encouraged to apply. The Branch's mission is to develop evidence-based strategies to improve the quality of life and survival of persons at increased genetic risk of cancer. The Human Genetics Program currently includes 8 Tenured, 5 Tenure-Track, and 8 Staff Clinician investigators, plus numerous post-doctoral scientists and fellows. Salary & benefit packages are commensurate with experience. Candidates may qualify for a Loan Repayment Program. Appropriate space and resources will be provided. This position is not restricted to US citizens. Please send a cover letter, curriculum vitae, brief summary of research interests, experience and future plans, copies of three publications and three letters of reference to: Ms. Judy Schwadron, DCEG, NCI, 6120 Executive Boulevard, Room EPS 8073, Bethesda, MD 20852.

The closing date of the advertisement is October 15, 2009; however, the search will continue until qualified applicants are found. A completed application is required in order to be considered for this position. The position is subject to a background investigation. The Department of Health and Human Services and the National Institutes of Health are Equal Opportunity Employers. Please visit our Website at: http://dceg.cancer.gov/cgb.

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Tenured or Tenure-Track Psychosocial/Behavioral
Clinical Genetics Branch, DCEG NCI

The Clinical Genetics Branch (CGB) of NCI's Division of Cancer Epidemiology and Genetics (DCEG), is seeking an enthusiastic, innovative scientific investigator with at least three years' post-doctoral expertise and experience in psychosocial/behavioral research, and experience related to human cancer genetics. Doctoral degree is mandatory. We are recruiting an experienced, clinically-oriented behavioral or psychosocial investigator to lead and more fully develop an existing program which targets persons at increased familial/genetic risk of cancer. Doctorally-prepared medical sociologists, health educators, behavioral scientists, marriage and family therapists, clinical social workers, nurses and genetic counselors are encouraged to apply. Training/certification in clinical psychology is highly-desirable, but not mandatory. The successful candidate will develop independent research programs of their own, collaborate on current projects, provide mentoring to trainees, and supervise junior staff. Current programmatic interests include medical decision-making, ambiguity, quality of life, genetic counseling, intra-familial communication, social support networks, use of complementary/alternative medications, and behavior related to cancer screening and genetic testing,

The Branch's mission: develop evidence-based strategies to improve the quality of life and survival of persons at increased genetic risk of cancer. The Human Genetics Program currently includes 8 Tenured, 5 Tenure-Track, and 8 Staff Clinician investigators, plus numerous post-doctoral scientists and fellows. Salary & benefit packages are commensurate with experience. Candidates may qualify for a Loan Repayment Program. Appropriate space and resources will be provided. Please send a cover letter, curriculum vitae, brief summary of research interests, experience and future plans, copies of three publications and three letters of reference to: Ms. Judy Schwadron, DCEG, NCI, 6120 Executive Boulevard, Room EPS 8073, Bethesda, MD 20852.

The closing date of the advertisement is October 15, 2009; however, the search will continue until qualified applicants are found. A completed application is required in order to be considered for this position. The position is subject to a background investigation. The Department of Health and Human Services and the National Institutes of Health are Equal Opportunity Employers. Please visit our Website at: http://dceg.cancer.gov/cgb

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Tenure or Tenure-Track Pathologist
Laboratory of Pathology, CCR NCI

The Laboratory of Pathology, Center for Cancer Research, National Cancer Institute, is seeking an outstanding tenure-track or tenure-eligible physician-scientist to both carry out original, innovative research and to participate in Molecular Diagnostics. This position is among several that have become available in a restructuring of the Laboratory of Pathology. The successful candidate will have a record of achievement in an area of research relevant to pathology: examples include, but are not limited to, chromosome biology and systems biology related to disease pathogenesis or diagnostics.

The National Cancer Institute is part of the National Institutes of Health in the Department of Health and Human Services, a federal government agency. The Center for Cancer Research (CCR) is the largest component of the NCI intramural biomedical research effort at NIH and a major user of the NIH Clinical Research Center, a state-of-the-art research hospital on the campus of the NIH in Bethesda, Maryland. The CCR offers tremendous depth and breadth of intellectual and technological resources, as well as opportunities for collaboration with investigators both within and outside of the NIH. Investigators are supported by a wide array of research resources, including animal facilities and dedicated high-quality cores in such areas as imaging/microscopy, chemistry/purification, mass spectrometry, flow cytometry, genomics/sequencing, transgenics and knockout mice, arrays/molecular profiling, and human genetics/bioinformatics. The research environment is highly conducive to advancing translational research and highly collaborative, emphasizing multidisciplinary and interdisciplinary team science. The Laboratory of Pathology is located on the campus of the National Institutes of Health in Bethesda, Maryland, a suburb of Washington, D.C.

Applicants must have an M.D. or M.D., Ph.D. degree. Board certification in Anatomic Pathology, Molecular Genetic Pathology or clinical Medical Genetics is desirable but equivalent training and experience may substitute. The successful candidate will direct an independent research program supported by the NCI intramural program. Research support will be provided to develop a state-of-the-art laboratory that includes sufficient personnel, space, equipment, and a supplies budget to sustain a productive research effort. Salary is negotiable within a range and is dependent upon qualifications and experience. A full package of benefits, including health insurance, life insurance, retirement and Thrift Savings Plan, is available to Federal employees. Candidates may be eligible for the NIH Loan Repayment Program (http://www.LRP.NIH.gov). This position is not restricted to U.S. citizens. Interested individuals should submit a cover letter specifying which position is of interest, curriculum vitae, a career synopsis and a statement of future plans (1-2 pages) electronically to bronezm@mail.nih.gov, or by mail to: Dr. Mark C. Udey, Chair; Search Committee; Laboratory of Pathology, Center for Cancer Research, NIH; c/o Ms. Melissa Bronez, Executive Secretary; 9000 Rockville Pike; 31 Center Drive, Building 31, Room 31A11, MSC 2440; Bethesda, MD 20892-2440. Applications will begin to be considered on or around August 1, 2009. The positions will remain open until filled. DHHS, NIH, and NCI are Equal Opportunity Employers. The NIH is dedicated to building a diverse community in its training and employment programs.

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Section Heads: Pathology and Cytopathology
Laboratory of Pathology, CCR NCI

The Laboratory of Pathology, Center for Cancer Research, National Cancer Institute, is seeking Heads of the General Surgical Pathology and Cytopathology Sections. These positions are among several that have become available in a restructuring of the Laboratory of Pathology. We are seeking accomplished academic diagnosticians who can take advantage of a stimulating collaborative research environment. Resources appropriate to the candidates' goals will be provided. In addition, incumbents will be responsible for leading small groups of surgical or cytopathologists, and for teaching residents and fellows.

The National Cancer Institute is part of the National Institutes of Health in the Department of Health and Human Services, a federal government agency. The Center for Cancer Research (CCR) is the largest component of the NCI intramural biomedical research effort at NIH and a major user of the NIH Clinical Research Center, a state-of-the-art research hospital on the campus of the NIH in Bethesda, Maryland. The CCR offers tremendous depth and breadth of intellectual and technological resources, as well as opportunities for collaboration with investigators both within and outside of the NIH. The research environment is highly conducive to advancing translational research and highly collaborative, emphasizing multidisciplinary and interdisciplinary team science. The Laboratory of Pathology is located on the campus of the National Institutes of Health in Bethesda, Maryland, a suburb of Washington, D.C.

Applicants must have an M.D. or M.D., Ph.D. degree, be board-certified in Anatomic Pathology and be eligible to be credentialed to practice medicine at the NIH. Candidates for Head of Cytopathology should also be board-certified in Cytopathology. Successful candidates will have had both solid training and extensive experience in diagnostic pathology, a record of, and interest in, investigative pursuits as well as leadership and team-building capabilities, and a commitment to training and mentoring. Salaries are negotiable within a range and are dependent upon qualifications and experience. A full package of benefits, including health insurance, life insurance, retirement and Thrift Savings Plan, is available to all Federal employees. This position is not restricted to U.S. citizens. Interested individuals should submit a cover letter specifying which position is of interest, curriculum vitae, a career synopsis and a statement of future plans (1-2 pages) electronically to bronezm@mail.nih.gov, or by mail to: Dr. Mark C. Udey, Chair; Search Committee; Laboratory of Pathology, Center for Cancer Research, NIH; c/o Ms. Melissa Bronez, Executive Secretary; 9000 Rockville Pike; 31 Center Drive, Building 31,

Room 31A11, MSC 2440; Bethesda, MD 20892-2440. Applications will begin to be considered on or around August 1, 2009. The positions will remain open until filled. DHHS, NIH, and NCI are Equal Opportunity Employers. The NIH is dedicated to building a diverse community in its training and employment programs.

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Some Science News You Might Have Missed

(not necessarily linked to the NIH IRP, but hopefully interesting or even inspiring... all from last month)

Research Offers Hope for Breast Cancer Vaccine

by Angela Townsend, Cleveland Plain Dealer
May 31, 2010

If findings from researchers at the Cleveland Clinic's Lerner Research Institute continue to hold promise, women could one day get a routine immunization against breast cancer. The reality of that happening is at least 10 years down the line. But the first steps toward that goal are encouraging. Researchers led by Clinic immunologist Vincent Touhy have found that a single vaccination with a substance called alpha-lactalbumin prevents breast cancer tumors from forming in mice and halts the growth of existing cancer tumors. On Sunday the research was published online and will appear in the June 10 issue of the scientific journal *Nature Medicine*.
[link to news article] [link to journal article in Nature Medicine]

How Children Outgrow Socialism

by Dan Ferber, ScienceNOW
May 27, 2010

Children start off like Karl Marx, but they eventually become more like a member of the International Olympic Committee. That's the conclusion of a new study, which finds that children's views on fairness change from egalitarian to merit-based as they grow older. The results help explain why society rewards high achievers with high pay, and they could help educators better motivate children.
[link to news article] [link to journal article in Science]

The Metabolic Secrets of Good Runners

by Heidi Ledford, Nature News
May 26, 2010

A healthy heart and svelte physique are not the only physical changes wrought by exercise. Researchers have also identified a host of metabolic changes that occur during exercise in physically fit athletes. These changes, described in *Science Translational Medicine*, suggest that exercise revs up the pathways that break down stored sugars, lipids and amino acids, as well as improving blood-sugar control. The results might eventually lead to dietary supplements that boost athletic performance or invigorate patients suffering from debilitating diseases, says study author Robert Gerszten, a clinician scientist at Massachusetts General Hospital in Boston.
[link to news article] [link to journal article in Science Translational Medicine]

Glaxo Tries a Linux Approach

by Robert Guth, Wall Street Journal
May 26, 2010

A decade ago, the Linux operating system helped spark a revolution in how software is developed. A move by GlaxoSmithKline PLC could test how well similar open-source principles work for developing new drugs. The pharmaceutical giant last week opened to the public the designs behind 13,500 chemical compounds that it said may be capable of inhibiting the parasite that causes malaria.
[link to news article]

Mouse Project to Find Each Gene's Role

by Allison Abbott, Nature News
May 25, 2010

An ambitious effort to identify the function of every gene in the mouse genome looks set to provide scientists with the ultimate mouse model of human disease. The International Mouse Phenotyping Consortium (IMPC) has yet to find all of the US$900 million it needs to complete its task over the next decade. But at a meeting on mouse models of human diseases in London, where the project was unveiled last week, scientists announced a commitment of $110 million from the US National Institutes of Health (NIH) in Bethesda, Maryland over the next five years.
[link to news article]

Hitting the Lights in Wasteful Offices

by Helen Knight, New Scientist
May 25, 2010

Most people instinctively turn off the light as they leave a room at home. But what about the office? Energy saving can seem a mite less vital when we're not footing the bill. Here, perhaps technology can help ensure the lights and heating are not left on when the sun is blazing or no one is there to use them. Such systems can cut a building's energy use by an average of 40 per cent, says Jack Bolick, chief executive of San Francisco-based Adura Technologies.
[link to news article]

Remove HIV's Invisibility Cloak to Defeat It

by Linda Geddes, New Scientist
May 21, 2010

Removing a chemical “invisibility cloak” that makes HIV-infected cells look healthy might be the key to ridding people of the virus. Human cells protect themselves against immune attack by displaying proteins on their surface that mark them as “self.” When the immune system detects these proteins, it holds back. One way HIV evades immune attack is by hijacking one of these proteins—CD59—and using it to disguise itself and the cells it infects as healthy, human cells.
[link to news article] [link to article in Journal of Immunology]

Turtle ‘Super Tongue’ Discovered [to breathe]

by Matt Walker, BBC News
May 20, 2010

One type of turtle possesses an extraordinary organ that allows it to breathe underwater and stay submerged for many months. The common musk turtle has a tiny tongue lined with specialised buds, scientists have discovered. Rather than use this tongue for eating, the turtles use it to exchange oxygen, solving a mystery of how these reptiles can remain submerged for so long. Details are published in journal

The Anatomical Record.
[link to news article] [link to journal article in The Anatomical Record

Vibrating Frogs Are Ready to Fight

by Adam Mann, *Science*NOW
May 20, 2010

How do frogs demonstrate their bravery? By quivering like a coward. New research reveals that male red-eyed treefrogs (Agalychnis callidryas) shake a branch with their hind legs to signal a willingness to brawl with a rival. It's the first time researchers have seen this form of communication in tree-dwelling animals, and they say birds, lizards, and other creatures may similarly send signals through the branches.
[link to news article] [link to journal article in Current Biology]

Genome From a Bottle

by Laura Sanders, Science News
May 20, 2010

Using a made-from-scratch genome, scientists have breathed a new kind of life into a bacterium. The feat, published May 21 in *Science*, holds great promise for creating designer organisms that might do things like produce vaccines, synthesize biofuels, purify water or eat spilled oil.

In the new study, researchers from the J. Craig Venter Institute carefully stitched together the entire genome of the bacteria *Mycoplasma mycoides* and put it into a different kind of bacteria, *Mycoplasma capricolum*. This unprecedented wholesale genome swap caused the *M. capricolum* cell to switch species. The newly converted cell was nearly identical to the natural *M. mycoides*.
[link to news article] [link to journal article in Science]

Neglected Diseases: Teach or Treat?

by Megan Scudellari, The Scientist
May 18, 2010

Scientists are taking the debate over how to address neglected tropical diseases to the pages of *PLoS Medicine*, with one camp arguing in favor of more drug development, and another pushing for more funding and research on public health strategies such as sanitation and education.
[link to news article] [link to journal article in PLoS Medicine]

The Expanding Mind

by Pete Estep, Seed
May 17, 2010

Scarcely a decade has passed since scientists painstakingly sequenced the first bacterial genome, yet today automated human genome sequencing is becoming routine, heralding a new era of medicine. Replacement tissues and even organs can now be grown from a patient's own cells and used without risk of immune rejection. Genetic therapies for a plethora of debilitating conditions are on the horizon; brain and body imaging technologies allow early discovery of potentially harmful pathologies. But as these developments have unfolded, another area of research has simultaneously matured to rival them in its dramatic potential to help people. It's called neuroengineering.
[link to news article]

A Crack in the Mirror Neuron Hypothesis of Autism

by Dan Ferber, *Science*NOW
May 12, 2010

Brain cells thought to underlie our ability to understand one another work just fine in people with autism spectrum disorders (ASD), according to the authors of a controversial new study. Other researchers had proposed that these cells, called mirror neurons, malfunction in people with ASD, disrupting their ability to understand what someone else is experiencing. If the results hold up, researchers will need another way to explain the social deficits that characterize the disorder.
[link to news article] [link to journal article in Neuron]

All Present-Day Life Arose From a Single Origin

by Tina Hesman Saey, Science News
May 12, 2010

One isn't such a lonely number. All life on Earth shares a single common ancestor, a new statistical analysis confirms. The idea that life-forms share a common ancestor is "a central pillar of evolutionary theory," says Douglas Theobald, a biochemist at Brandeis University in Waltham, Mass. "But recently there has been some mumbling, especially from microbiologists, that it may not be so cut-and-dried."

Because microorganisms of different species often swap genes, some scientists have proposed that multiple primordial life forms could have tossed their genetic material into life's mix, creating a web, rather than a tree of life. To determine which hypothesis is more likely correct, Theobald put various evolutionary ancestry models through rigorous statistical tests. The results, published in the May 13 *Nature*, come down overwhelmingly on the side of a single ancestor.
[link to news article] [link to journal article in Nature]

New Risks Emerge for Some Stomach Drugs

by Jennifer Corbett Dooren, Wall Street Journal
May 11, 2010

Medications known as proton pump inhibitors, which suppress acid in the stomach and make up the third-biggest-selling class of drugs, appear to be associated with fractures in postmenopausal women and with higher rates of bacterial infections, new studies released Monday show.
[link to news article] [link to journal article in Archives of Internal Medicine]

Genomics Goes Beyond DNA Sequence

by Alla Katsnelson, Nature News
May 10, 2010

What makes two individuals different? Biologists now know that the genome sequence holds only a small part of the answer, and that key elements of development and disease are controlled by the epigenome—a set of chemical modifications, not encoded in DNA, that orchestrate how and when genes are expressed.

But whereas faster, cheaper and more accurate sequencing technologies have developed rapidly, techniques to map the epigenome have lagged behind. Sequencing company Pacific Biosciences, based in Menlo Park, California, has now developed an integrated system that simultaneously reads a genome sequence and detects an important epigenetic marker called DNA methylation.
[link to news article] [link to journal article in Nature Methods]

Biosecurity Laws Hobble Research

by Bob Grant, The Scientist
May 10, 2010

Ever since the U.S. government has taken steps to protect and encourage research involving pathogens that could be used as biological weapons, that research has become much less efficient, according to a new analysis. Though funding for research on so-called "select agents," or pathogens that can be used as

weapons, has shot through the roof, and the number of papers using those organisms has risen in recent years, the work has become up to five times less efficient--meaning, the same amount of funding produces fewer papers than it did before.
[link to news article] [link to journal article in PNAS]

At Front Lines, AIDS War Is Falling Apart

by Donald McNeil Jr., New York Times
May 9, 2010

...Uganda is the first and most obvious example of how the war on global AIDS is falling apart. The last decade has been what some doctors call a “golden window” for treatment. Drugs that once cost $12,000 a year fell to less than $100, and the world was willing to pay. In Uganda, where fewer than 10,000 were on drugs a decade ago, nearly 200,000 now are, largely as a result of American generosity. But the golden window is closing.
[link to news article]

Girl Frozen in Time May Hold Key to Ageing

from The Times (London)
May 9, 2010

Scientists are hoping to gain new insights into the mysteries of ageing by sequencing the genome of a 17-year-old girl who has the body and behaviour of a tiny toddler. Brooke Greenberg is old enough to drive a car and next year will be old enough to vote—but at 16lb in weight and just 30in tall, she is still the size of a one-year-old. Until recently she had been regarded as a medical oddity but a preliminary study of her DNA has suggested her failure to grow could be linked to defects in the genes that make the rest of humanity grow old. If confirmed, the research could give scientists a fresh understanding of ageing and even suggest new therapies for diseases linked to old age.
[link to news article]

Signs of Neanderthals Mating With Humans

by Nicholas Wade, New York Times
May 6, 2010

Neanderthals mated with some modern humans after all and left their imprint in the human genome, a team of biologists has reported in the first detailed analysis of the Neanderthal genetic sequence.
[link to news article] [link to journal article in Science]

Neuroscience: Illuminating the Brain

by Lizzie Buchen, Nature News
May 5, 2010

... Advances in a five-year-old field called optogenetics are convincing these scientists to crack open molecular-biology textbooks. Using a hybrid of genetics, virology and optics, the techniques involved enable researchers to instantaneously activate or silence specific groups of neurons within circuits with a precision that electrophysiology and other standard methods do not allow.
[link to news article]

Scientists Resurrect Mammoth Hemoglobin

by Andrew Curry, *Science*NOW
May 2, 2010

By inserting a 43,000-year-old woolly mammoth gene into *Escherichia coli* bacteria, scientists have figured out how these ancient beasts adapted to the subzero temperatures of prehistoric Siberia and North America. The gene, which codes for the oxygen-transporting protein hemoglobin, allowed the animals to keep their tissues supplied with oxygen even at very low temperatures. "It's no different from going back 40,000 years and taking a blood sample from a living mammoth," says Kevin Campbell, a biologist at the University of Manitoba in Canada.
[link to news article] [link to journal article in Nature Genetics]

Hunters and Shoppers: Men and Women Navigate Differently

from The Economist
May 1, 2010

Men are generally better than women on tests of spatial ability, such as mentally rotating an object through three dimensions or finding their way around in a new environment. But a new study suggests that under some circumstances a woman's way of navigating is probably more efficient.

Luis Pacheco-Cobos of the National Autonomous University of Mexico and his colleagues discovered this by following mushroom gatherers from a village in the state of Tlaxcala for two rainy seasons... The results, to be published in *Evolution and Human Behaviour*, show that the men and women collected on average about the same weight of mushrooms. But the men travelled farther, climbed higher and used a lot more energy—70% more than the women.
[link to news article] [link to journal article in Evolution and Human Behaviour]

More Money, Fewer Postdocs

by Megan Scudellari, The Scientist
May 1, 2010

Proposed salary increases have many postdocs waiting eagerly for a bigger check, but in the current economic environment, others are concerned about the potential consequences. Currently, postdocs receiving federal awards make between $37,740 to $52,068 a year, depending on a fellow's level of experience.

Now, U.S. President Barack Obama's proposed 2011 budget includes a six percent funding increase for these government-funded stipends, or National Research Service Awards (NRSAs), which support more than 17,000 postdoctoral fellows. And since many private institutions use the NRSA stipend scale to determine their own postdoc compensation, the salary bump is likely to have wide-reaching effects.
[link to news article]

Evolution of Science

by Lauren Urban, The Scientist
May 1, 2010

Science is made up of cliques. Throughout Alex Shneider's career, he has noticed certain people drawn to certain types of science, and certain types of grant proposals always being funded. Shneider, the founder and CEO of Cure Lab, a vaccine biotech based in Massachusetts, came up with a theory to explain why these cliques occur.
[link to news article] [link to journal article in Trends in Biochemical Sciences]

Infection, Kill Thyself

by Rachel Ehrenberg, Science News
May 2010

Scientists are turning harmful bacteria into agents of their own destruction. In an effort to create antibacterial wound dressings, a new material comes laden with microbial booby traps that are triggered by

the activity of harmful bacteria, scientists report online April 20 in the *Journal of the American Chemical Society*.
[link to news article] [link to article in Journal of the American Chemical Society]

Scientific Interest Groups

The complete list of Scientific Interest Groups (SIGs), a.k.a. NIH Inter-institute Interest Groups, is at http://www.nih.gov/sigs. This section of the DDIR web board complements the SIGs website with news about new SIGs, SIG issues, and upcoming SIG meetings.

New SIG: Antibody Interest Group

The NIH Antibody Interest Group (ABIG) aims to promote information exchange and interaction among NIH scientists who work on various aspects of antibody engineering and therapy. The success of antibody therapy requires a deep understanding of biological systems in relation to molecular and cell biology, immunology, biochemistry, and microbiology as well as diseases such as cancer, autoimmunity, and infectious diseases. Interest in antibody therapy crosses traditional biomedical disciplinary boundaries. ABIG provides an open forum for multidisciplinary discussion among colleagues who otherwise may have limited contact. The principal ABIG activities are monthly meetings on current topics as well as an annual symposium on the NIH campus. The monthly ABIG meetings are open to everyone interested. These meetings are devoted to research seminars on numerous aspects of antibody engineering and therapy that will be presented by both NIH scientists and outside speakers. An advisory committee comprised of NIH scientists from basic and clinical disciplines is responsible for running the ABIG. Their principal job is to select speakers for the monthly meetings. The committee consists of: Mitchell Ho (homi@mail.nih.gov), Dimiter Dimitrov (dimitrov@ncifcrf.gov), Christoph Rader (raderc@mail.nih.gov) and Raffit Hassan (hassanr@mail.nih.gov).

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New SIG: Infectious Diseases Interest Group

The Infectious Diseases Interest Group (IDIG) is fascinated by all aspects of host-pathogen interactions that occur during bacterial, parasitic, viral, or fungal infection. Major focus areas are the analysis of virulence factors and their host targets as well as the investigation of protective strategies employed by the host. The main goal of the IDIG is to facilitate interaction among NIH researchers and to foster collaborations within the NIH infectious disease community. IDIG also wants to provide a forum for students and postdoctoral fellows to present their own work and to meet intra- and extramural scientists. Typically there will be two intramural seminar speakers in each session, preferentially postdoctoral fellows or students. Occasionally, we will have presentations from invited speakers outside the NIH or from intramural investigators. For more information or to join the IDIG email list please contact moderator Matthias Machner (machnerm@mail.nih.gov).

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New SIG: Microbiome Working Group

A Microbiome Working Group has been formed by investigators at NCI-Frederick to bring together NIH staff interested in the analysis of the microbiome and/or modification of the host microbiome through the use of probiotics or other microorganisms. The group will meet monthly to hear presentations on current research, problems, day-to-day frustrations, new technologies, new ideas, and other aspects of research projects that the presenters would like to discuss. The group is open to all NIH staff. Videolinks from Frederick to Executive Boulevard and the NIH Bethesda campus will be established for the meetings. NIH labs outside of these areas are also encouraged to participate through videolinkage. Meetings are held the

first Thursday of the month from 11:30 to 1:00 p.m. For more information or to join the e-mail list, contact Howard Young (NCI-Frederick) at 301-846-5700 or younghow@mail.nih.gov.

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TRIG Line-Up: Translational Research Interest Group

February 11, 2010, 1:00-2:30 p.m., Bldg. 10, old Medical Board Room 2C116
Alan N. Schechter, MD, Chief, Molecular Medicine Branch, NIDDK
"Is the US model for biomedical research still working?"

March 11, 2010, 1:00-2:30 p.m., Bldg. 10, old Medical Board Room 2C116
Elise Kohn, MD, Principal Investigator, Center for Cancer Research, NCI

April 8, 2010, 1:00-2:30 p.m., Bldg. 10, old Medical Board Room 2C116
Pat Piringer, Coordinator, Bench-to-Bedside Program, CC, OD
"Overview of the NIH Bench-to-Bedside Program"

May 13, 2010, 1:00-2:30 p.m., Bldg. 10, Room 2-3750 West Laboratories
Andrea Lisco, MD, PhD, Senior Research Fellow, Section on Intercellular Interactions, NICHD
"A new use for an old drug: Discovery and implications of the anti-HIV activity of acyclovir"

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Book Club: Biomedical Computing Interest Group

The BCIG Book Club meets on 4th Thursdays from 5:30 to 7:30 p.m. in the (old) Medical Board Room in Building 10, Room 2C116. All are welcome. The 2010 books list follows:

Jan 28 Nudge: Improving Decisions about Health, Wealth and Happiness (by Richard H. Thaler)
Feb 25 Thinking in Systems: A Primer (by Donella H. Meadows)
Mar 25 Better: A Surgeon's Notes on Performance (by Atul Gawande)
Apr 22 The Cult of Statistical Significance (by Stephen T. Ziliak & Deirdre N. McCloskey)
May 27 Precancer: The Beginning and the End of Cancer (by Jules Berman & Bill Moore)
Sep 23 Fooled by Randomness: Hidden Role of Chance in Markets and Life (by Nassim Nicholas Taleb)
Oct 28 You've Got To Be Kidding: How Jokes Can Help You Think (by John Capps & Donald Capps)

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New SIG: Engineering and Physical Science Interest Group

The Engineering and Physical Science Interest Group (EPSIG) promotes applications of engineering and the physical sciences within biomedical research. A main goal is to facilitate interactions among researchers trained in biomedicine and the physical sciences. Areas of interest encompass the physical principles underlying biological systems, tools used to study those systems, and bioengineering approaches to medical diagnostics, therapeutics and disease prevention. Activities of the EPSIG include a lecture series by extramural and intramural scientists, as well as sponsorship of symposia and poster sessions at which NIH postdoctoral fellows can present their own research. An additional aim is to educate postdoctoral scientists who have engineering and physical science backgrounds about the techniques, concepts, and scientific issues that will enable them to pursue biomedical careers. The group will have a pedagogical role in facilitating communication among biologists, mathematicians and physical scientists. The EPSIG's moderators are Richard Leapman (NIBIB), Antonina Roll-Mecak (NINDS), and Rob

Tycko (NIDDK). They invite anyone who is interested in fostering increased communication among scientists to join the EPSIG. The website is at http://sigs.nih.gov/epsig.

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New SIG: Pediatric Imaging Scientific Interest Group

The pediatric population is currently under-served radiologically. The Pediatric Imaging Scientific Interest Group will promote the development and use of translational imaging methods to monitor milestones in normal and abnormal development, to assess and enhance fetal and child health, to help diagnose childhood diseases, and to assess the effects of trauma in the pediatric population. Attention will be given to promoting the development of quantitative imaging methods and disseminating their use in pilot studies and clinical trials.People interested in this group might be interested in autism and other developmental disorders, childhood schizophrenia and other diseases afflicting children, pediatric neuroimaging, developing imaging markers for childhood diseases and disorders, normal brain development, pediatric oncology and cancer diagnosis, pediatric surgery and neurosurgery, PET, MRI, CT physics, image processing, design of clinical trials, group analysis and more.The group moderator is Carlo Pierpaoli of NICHD's Program on Pediatric Imaging and Tissue Sciences in the Section on Tissue Biophysics and Biomimetics. The website is at http://sigs.nih.gov/pedimaging.

###

New SIG: Probiotic and Prebiotic Working Group

The Probiotic and Prebiotic Working Group (PPWG) is a trans-NIH effort that was formed in 2006 to identify gaps and challenges in prebiotic and probiotic research. Our goals include (1) facilitating interactions and collaborations among research scientists in the field of probiotics and prebiotics, (2) advancing prebiotic and probiotic research, and (3) understanding the role of gut microbiota and use of prebiotics and probiotics in health and disease. To achieve these goals, the working group strives to promote constructive interactions across NIH Institutes, Centers, and Offices. We disseminate real-time information to keep PPWG members abreast of current and future activities occurring in the fields of probiotics and prebiotics. The group meets as needed to form allied partnerships and collaborate on various pre- and probiotic activities. PPWG sponsors and co-funds workshops and conferences geared toward topics related to pre- and probiotics. PPWG is delighted to add new members planning to play an active role within the group; however, membership is limited to NIH employees. Please e-mail group coordinator Crystal McDade-Ngutter if you are interested in joining the PPWG. The website is at http://sigs.nih.gov/ppwg.

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New SIG: TGF-beta Superfamily Interest Group

The TGF-beta superfamily occupies a central position in the signaling circuits that control cell growth, differentiation, and death. Seminal work has resulted in a deeper appreciation of the integration of TGF-beta pathways into signaling networks at large and its disruption in a wide variety of human disorders. Although, TGF-beta remains elusive in terms of our complete understanding of its multifunctional modes of action, its potential as a therapeutic target in many pathological settings is promising. The TGF-beta Superfamily Interest Group keeps abreast of advances in the field of TGF-beta superfamily research and in our understanding of the global ramifications when TGF-beta signaling goes awry in diseases such as cancer, diabetes, obesity, immunological disorders, and pathological fibrosis. This group also serves as a platform for dissemination of TGF-beta-related reagents and expertise on campus. The group's moderators are Lalage Wakefield (NCI) and Sushil Rane (NIDDK). They invite all investigators interested in

TGF-beta research to join. The website is at http://sigs.nih.gov/TGF-beta.

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New SIG: Wnt Working Group

The Wnt Working Group is now a scientific interest group and hopes to foster collaborations via broader interactions within the NIH intramural program. The Wnt Working Group currently consists of scientists from the NIH campus in Bethesda, the NCI facility at Frederick and the local extramural community. Participants come from labs entirely devoted to Wnt research as well as labs in which Wnt signaling is a narrower, perhaps transient interest. We meet every couple months to present our unpublished research in a confidential setting intended to give timely feedback and encourage collaboration. Subject matter reflects the wide range of Wnt research in development and disease. Typically we have two seminar speakers at each session, and meetings alternate between the Bethesda and Frederick campuses. Speakers often come from the ranks of our postdoctoral fellows. Occasionally, we also have seminars from invited speakers outside the NIH. For more information or to join, contact moderators Jeffrey Rubin or Terry Yamaguchi of NCI. The website is at http://sigs.nih.gov/wnt.

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New SIG: Neuromuscular Diseases Interest Group

Not much information is available yet, but the name more or less captures the goal of this SIG. The group would like to meet every month or every other month to discuss recent clinical and basic advances and research on amyotrophic lateral sclerosis (ALS), related motor neuron diseases and related ubiquitinopathies. Contact Bryan Traynor (NIA) for more information or to join.

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New SIG: Metabolomics Scientific Interest Group

In the postgenomic era, metabolomics is gaining importance as another promising “omic” technology for understanding the biology of various diseases. Metabolomics is the study of the metabolome, the repertoire of metabolites, or small molecules present in cells, tissue, and body fluids. These molecules are the final products of interactions between gene expression, protein expression, and the cellular environment. The metabolome is thus a close representation of a physiological state and biochemical pathways. It forms the integral part of systems biology in which the data from various omic technologies complement each other to provide a holistic picture of how various biological systems respond to external stimuli and in various pathophysiological conditions. It offers great promise for understanding the underlying principles of biological processes including various pathophysiological conditions such as cancer and other diseases.

NIH promoted the development of metabolomics technology through its Roadmap for Medical Research initiative, launched in 2004 to address roadblocks to research and transform the way biomedical research is conducted. In 2005, NCI, in collaboration with other ICs, conducted a successful and well-attended workshop to address the use of metabolomics in cancer research. In response to some of the workshop’s recommendations, NCI and other institutes have since awarded grants to extramural researchers who use metabolomic tools. At least one NIH intramural lab is actively pursuing metabolomics technologies. Still, interest in metabolomics research is not as robust as it could be.

The new Metabolomics Scientific Interest Group was created to help stimulate more interest in the field and aims to bring interested NIH program officials and intramural investigators together. The group will meet periodically to discuss recent advances and hear from invited experts. We hope that in the future there will be more programmatic initiatives that promote the application of metabolomics technologies to

research in human health.

For more information, contact Padma Maruvada or refer to http://sigs.nih.gov/metabolomics.

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New SIG: Advanced Pharmaceutical Screening Interest Group

The NIH Advanced Pharmaceutical Screening Interest Group (APSIG) serves as a platform for scientific discussion of current trends and issues relevant to Pharmaceutical Screenings. It is also a forum for interaction between intramural and extramural scientists interested in the many aspects of this evolving field. Discussion topics include, but are not limited to: emerging research, novel methodologies & technologies, biomarkers, role in personalized medicine, current limitations to translation, clinical trial design, available resources, and training. The activities of the APSIG are coordinated by the APSIG Steering Committee. If you would like to communicate with members of the group, please send an e-mail to APSIG@list.nih.gov. The current leader of this interest group is Dr. June Lee, 301-435-6987. The website is at http://sigs.nih.gov/apsig.

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New SIG: Biological Visualization Interest Group

Visualization of anatomical, cellular and molecular concepts is an efficient method of communicating information. Creating animations and interactive applications is getting easier and faster, but requires efficient interaction of technological specialists and content experts. The purpose of the Biological Visualization Interest Group is to build a community centered on sharing resources and providing feedback to help improve the quality and efficiency of creating content. Meetings serve as a venue to highlight animations, demonstrate visual and interactive technologies and to create a forum for discussion and direct feedback. For more information, contact Jeremy Swan or visit the website at http://science.nichd.nih.gov/confluence/display/bvig/Home.

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Intramural 101

Things They May Have Told You About (and other things we found)

A FEW NIH WEB SITES

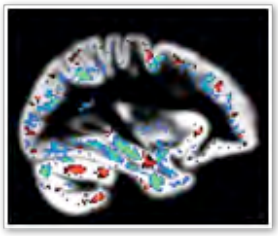
Got Mice? -- KOMP (KnockOut Mouse Project) is a trans-NIH project that encompasses a number of efforts that all aim to enhance the availability and utility of mouse knockout strains. The key goal, as proposed by the scientific community, is the systematic mutagenesis of all protein encoding genes in the mouse. The centerpiece of the KOMP knockout effort consists of two programs that aim to create 8,500 targeted mutations in genes in the form of ES cell clones. One is a consortium comprising The Children's Hospital Oakland Research Institute, the Wellcome Trust Sanger Institute, and the University of California at Davis ("CSD"). The other group consists of investigators at Regeneron Pharmaceuticals. The CSD group will create "null-first conditional-ready" alleles (see Testa et al., Genesis 38:151-8 PMID 15048813). Regeneron will create null alleles by deleting all or most of the exons in target genes. The two programs are expected to produce more than 4,000 knockouts (in the form of ES cells) by the end of 2009. The knockouts are being produced in C57BL/6 ES cells.

A report describing the CSD cell line has been recently published. (Pettit et al., Nature Methods 6:493-5 PMID 19525957). The current target list, the assignment of genes to the production centers, and the status of targeting projects can be reviewed at www.knockoutmouse.org. The KOMP repository has a website for ordering reagents and obtaining relevant information (www.komp.org). A similar European program, EUCOMM (www.eucomm.org), has produced 2,400 "null-first conditional-ready" knockouts to date. The EUCOMM repository website can be viewed at http://www.eummcr.org/. The goal of the EUCOMM effort is to produce 8,000 mutants so that together the US and European efforts will generate 16,500 targeted mutations. See attached graph for progress, goals, and timeline.

About the image: This is a litter produced by laser-assisted 8-cell injection of JM8.N4-derived mutant ES cells. Photo courtesy of Naumann/TCF MPI-CBG Dresden/Germany, not to be copied without owner's permission.

Demystifying Medicine -- If the logo doesn't win you over... Demystifying Medicine is an immensely popular two-hour offering held weekly from January through May each year. The course is modeled after the old-fashioned medical rounds, with doctors and patients discussing a disease. This course is one of the gems of the NIH intramural program, a key element in our mission to train young scientists and to foster translational research. Hundreds of fellows, as well as some clinical researchers, sign up for the course each year; thousands more watch each week live via the Internet or later on CD as far away as China. Demystifying Medicine now has been replicated in dozens of universities here and abroad, tapping into a profound need to educated Ph.D.s as the number of physician-scientists continues to dwindle — a phenomenon that began after WWII as federal funding turned medical centers into research-intensive institutions, and which accelerated in the 1970s with major advances in biotechnology that lured bright minds to a life at the bench. Dr. Irwin Arias developed this course at Tufts in the 1980s and brought it to NIH in 2001. The current schedule is at http://demystifyingmedicine.od.nih.gov.

PubMed via the NIH Library -- Sure, you know about PubMed. But have you ever entered the system through the NIH Library? It's a different experience. The look is nearly identical. But the search results are different, with easier links to whole articles. You can do this at outside of NIH with a VPN connection by clicking on "PubMed@NIH" at http://nihlibrary.nih.gov or perhaps by going directly to http://www.ncbi.nlm.nih.gov/sites/entrez?otool=nihlib. Actually, for journal searchers, the NIH LIbrary's search engines (plural) are more popular among NIH scientists than Google or "ordinary" PubMed.



NIH Research Matters -- A nice play on words, and a nice website as well. *NIH Research Matters* is a review of NIH research, gathered and presented by the Office of Communications and Public Liaison with the taxpaying public in mind. Harrison Wein is the editor; Vicki Contie is the assistant editor. Every two weeks this small team highlights recent intramural and extramural NIH research in digestible nuggets with images and links, usually in doses of three. You can subscribe to the RSS Feed if you can't remember to visit the site regularly. Archives date back to January 2007. In way of a humble disclaimer, the site states that the "NIH has nearly 6,000 NIH staff scientists and supports more than 325,000 researchers with competitive grants to all 50 states, the territories and more than 90 countries around the world. These are just a small sampling of [their] accomplishments..."

Felcom, Dot.com -- The Fellows Committee, Felcom, has revamped its website. This was initiated by Michele Rankin, a postdoc in the NINDS Molecular Neuropharmacology Section, who said she wanted to have "a place for one-stop shopping for new fellows." But veteran fellows will benefit from this site, too. The new site, at http://felcom.od.nih.gov, is designed to stay timely with postings about lectures, courses, deadlines and various opportunities. Felcom has such natural rapid turnover, with postdocs coming and going, that it has been hard to keep the site updated. The new design enables the many Felcom members to update the site easily, without the reliance on one single webmaster. One Felcom gem, by the way, is the listserv, FELLOW-L@list.nih.gov, now with about 1,500 subscribers. While you will get several messages a day, members find this list quite useful to ask for advice or, more commonly, borrow a reagent or other lab supplies when in a pinch. It's as easy as asking a neighbor for sugar. (You can subscribe to the list at https://list.nih.gov/cgi-bin/wa?SUBED1=fellow-l&A=1.)

Why You Got Into This Business -- Okay, it's not actually an NIH website, but check out "The Inner Life of a Cell" by Harvard's Department of Molecular and Cellular Biology and NewTek LightWave 3D and Adobe After Effects. The animation depicts the inner workings of a leukocyte. The most permanent link appears to be at http://multimedia.mcb.harvard.edu/anim_innerlife.html. (Various versions with trippy music have been posted to and pulled from YouTube.) The originals are posted at http://multimedia.mcb.harvard.edu/media.html. Look for one of three boxes labeled "Inner Life," offering the animation at various speeds. "The Inner Life of the Cell" is an eight-minute animation with narration and combines a range of current scientific models with visually engaging, intricate images to create a feel for the molecular workings and complex interactions of a cell. The award-winning animation from Harvard University represents a key selection of molecular events that allow a white blood cell to sense its surroundings and respond to an external stimulus. It animates the process of leukocyte extravasation, the movement of leukocytes, white blood cells that defend the body against disease, toward the site of

tissue damage or infection, while touring major parts of the cell.

Free Images, Revisited -- The NIH Image Bank is located at http://media.nih.gov/imagebank/index.aspx. This is a source of copyright-free, NIH-made images for the public, which includes you. Images on the page will likely appear different every time you visit. The permanent links are along the left-hand side, though. You can browse by category or by institute, so don't let the handful of images on display fool you into thinking that's all there is. You can submit your own images to the Image Bank. You should go through your IC news office, and OIR Communication Director Christopher Wanjek can direct you. Earlier on this site we highlighted NLM's History of Medicine image gallery. That's fun, too.

One Site, 22 Intramural Programs -- The NIH Web site once again has a page providing links to all the intramural programs. This page, http://www.nih.gov/science/labs.html, was long outdated and hard to find. Now it is a more visible link from http://www.nih.gov/science, one step from http://www.nih.gov. This is a no-frills, straight-list kind of page, but it offers one-stop shopping and might be worth a bookmark.

Free Editorial Service -- The NIH Fellows Editorial Board (FEB) offers free, confidential editing service to fellows from the entire NIH community. For instructions on how to submit, follow the "how to submit" link at http://ccr.cancer.gov/careers/feb. An all-volunteer editorial board of fellows and other professionals edit fellows' scientific documents—typically manuscripts and grant applications—for grammar, form, and clarity. The editors also review essential elements pertinent to the document, such as figures and figure legends, but do not consider scientific merit. Authors receive written feedback within 10 business days and may request meetings with editors.

DNA Mini-courses -- The double helix got you dizzy? The National Center for Biotechnology Information (NCBI), part of the National Library of Medicine, offers a variety of gene and bioinformatics mini-courses. Refer to http://www.ncbi.nlm.nih.gov/Class/minicourses/ for details. Or contact Medha Bhagwat, one of NCBI's instructors. The May-June issue of the NIH Catalyst contains a feature article about NCBI and its contribution to research worldwide.

Scientific Interest Groups -- What makes the NIH so special? One advantage here is the ease of creating multidisciplinary collaborations. From basic biology to, yes, physics and engineering, NIH scientists can call upon neighbors to solve a problem or rejuvenate research projects. And key to these collaborations are the Scientific Interest Groups, or SIGs. We have over 100 SIGs, from the Acetyltransferase Interest Group to the Xenopus/Zebrafish Interest Group. You can access the websites for all of these groups at http://www.nih.gov/sigs/ .

Scientific Directors Meetings -- Ever wonder what gets said during those bimonthly Scientific Directors meetings? It's no secret. The minutes are online at http://www.nih.gov/sdminutes/ and date back to 1984.

NLM Image Gallery -- The National Library of Medicine has over 60,000 images online, from abdominal pain to zodiacs and thousands in between that can be interpreted creatively (as demonstrated in the next paragraph). Although NLM doesn't own the copyright for most of these images, you can likely use them to spice up your educational non-commercial presentations under the "fair use" rule for copyrights. Refer to NLM's copyright page at http://wwwihm.nlm.nih.gov/copy.html for details. The image gallery is searchable by keyword at NLM's History of Medicine website, http://ihm.nlm.nih.gov/luna/servlet/view/all. In the adjacent image of abdominal pain, devils run a lumberjack's saw through some poor soul's gut. Images courtesy the National Library of Medicine.

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The goal of this section of the DDIR web board is to provide or highlight resources to help you with your research. If you have suggestions, send them to Christopher Wanjek, OIR Director of Communications.
Last Modified: January 8, 2010 (or perhaps more recently)

FOSTERING COMMUNICATION AND COLLABORATION

The NIH CATALYST

A PUBLICATION FOR NIH INTRAMURAL SCIENTISTS

The NIH Catalyst is the newsletter of the intramural staff, published bimonthly. It is available online at http://www.nih.gov/catalyst and in bins throughout the NIH Bethesda campus and at other NIH locations. Contact managing editor Laura S. Carter with story ideas for The Catalyst.

Below are links to Michael Gottesman's editorials from The Catalyst.

2010 May-Jun: SUMMER STOCK (page 2)
2010 Mar-Apr: A NEW ERA OF BIOLOGY (guest John O'Shea) (page 2)
2010 Jan-Feb: THINK GLOBALLY, ACT INTRAMURALLY (page 2)

2009 Nov-Dec: CLINICAL RESEARCH IS A TEAM SPORT (page 2)
2009 Sep-Oct: NEW NIH SCIENTIFIC RESOURCES (page 2)
2009 July-Aug: I AM INTRAMURAL (page 2)
2009 May-Jun: CULTIVATING OUR SCIENTIFIC STAFF (page 2)
2009 Mar-Apr: ECONOMIC STIMULUS AND THE NIH INTRAMURAL RESEARCH PROGRAM (page 2)
2009 Jan-Feb: THE NIH INTRAMURAL PROGRAM AT THE CROSSROADS (page 2)

2008 Nov-Dec: REVITALIZING CLINICAL RESEARCH AT THE NIH (page 2)
2008 Sep-Oct: IMPROVING THE INTRAMURAL ENVIRONMENT FOR WOMEN SCIENTISTS
2008 Jul-Aug: PROGRESS ON NEW TRANS-NIH SCIENCE
2008 May-Jun: NIH DIRECTOR'S INTRAMURAL CHALLENGE AWARDS
2008 Mar-Apr: A LIFE REMEMBERED: JOSEPH EDWARD RALL, 1920–2008
2008 Jan-Feb: GOING PUBLIC WITH NIH RESEARCH

2007 Nov-Dec: TRANS-NIH INTRAMURAL SCIENTIFIC INITIATIVES: WHY? HOW? WHEN?
2007 Sep-Oct: UNUSED CAPACITY AT CLINICAL CENTER (guest John Gallin)
2007 Jul-Aug: POSTDOCS: BREAD AND BUTTERS OF NIH RESEARCH (guest Sharon Milgram)
2007 May-Jun: BUDGET BLUES
2007 Mar-Apr: TURNING MEDICAL STUDENTS INTO PHYSICIAN-SCIENTISTS
2007 Jan-Feb: BUILDING BRIDGES TO SCIENTIFIC INDEPENDENCE

2006 Nov-Dec: SPREADING THE WORD ABOUT TRAINING OPPORTUNITIES AT NIH
2006 Sep-Oct: TRANS-NIH INTRAMURAL SCIENTIFIC INITIATIVES
2006 Jul-Aug: GUIDING PRINCIPLES AND ETHICAL PRACTICES
2006 May-Jun: none
2006 Mar-Apr: FIRST STEPS TO AN INTRAMURAL ROADMAP
2006 Jan-Feb: FINDING WAYS TO CAST A WIDER NET

2005 Nov-Dec: A PENNY SAVED IS A PENNY EARNED
2005 Sep-Oct: RESPONDING TO HURRICANE KATRINA (guest Richard Wyatt)
2005 Jul-Aug: THE MUSIC OF SCIENCE PLAYS ON (guest Lance Liotta)
2005 May-Jun: A PITCH FOR INTRAMURAL SUPPORT OF PUBLIC ACCESS
2005 February: GUIDING PRINCIPLES (guest Elias Zerhouni)
2005 Jan-Feb: INTRAMURAL RESEARCH ACCOMPLISHMENTS

2004 Nov-Dec: SUPPORTING HIGH-RISK, HIGH-IMPACT RESEARCH...
2004 Sep-Oct: INCREASING DIVERSITY IN THE NIH SCIENTIFIC STAFF
2004 Jul-Aug: RENEWING TRUST IN NIH
2004 May-Jun: WHEN LAST THE CICADAS PEEKED, 17 YEARS AGO AT NIH AND TODAY
2004 Mar-Apr: THE "I' IN NIH IS INNOVATION...
2004 Jan-Feb: WHERE TO FIND HELP AT NIH

2003 Nov-Dec: HIGHWAYS AND BYWAYS: 50 YEARS OF RESEARCH AT THE CLINICAL CENTER
2003 Sep-Oct: THE ZEN OF PARKING
2003 Jul-Aug: CATALYZING TEAM SCIENCE
2003 May-Jun: CLINICAL RESEARCH AT NIH --- WHERE DO WE GO FROM HERE?
2003 Mar-Apr: THE NIH INTRAMURAL PROGRAM: VIVA LA DIFFERENCE! (guest Joram Piatigorsky)
2003 Jan-Feb: THE POSTDOCTORAL EXPERIENCE AT NIH --- SOME NEW IDEAS

2002 Nov-Dec: FROM MIS TO CRIS (guest John Gallin)
2002 Sep-Oct: WHAT IS SPECIAL ABOUT THE INTRAMURAL RESEARCH PROGRAM?
2002 Jul-Aug: SPECIAL INTEREST GROUPS --- AN ASSESSMENT
2002 May-Jun: SHARING SCIENTIFIC RICHES
2002 Mar-Apr: TRAVEL TO SCIENTIFIC MEETINGS: THE ROAD AHEAD
2002 Jan-Feb: EVALUATION OF THE NIH HUMAN RESEARCH SUBJECTS PROTECTION PROGRAM

2001 Nov-Dec: EVALUATING THE INTRAMURAL HUMAN SUBJECTS PROTECTION PROGRAM...
2001 Sep-Oct: HAVE NIH WOMEN SCIENTISTS ADVANCED... (guest Joan Schwartz)
2001 Jul-Aug: BUILDING INFRASTRUCTURE FOR SCIENCE AT NIH --- THREE SIDES TO OUR STORIES
2001 May-Jun: REFLECTIONS AND PROJECTIONS --- TAKING STOCK OF THE INTRAMURAL PROGRAM
2001 Mar-Apr: UPFRONT AND PERSONAL --- RECRUITING FELLOWS TO NIH
2001 Jan-Feb: PROTECTING THE INTEGRITY OF THE SCIENTIFIC ENTERPRISE

2000 Nov-Dec: PLANNING FOR CHANGE IN BIOMEDICAL RESEARCH
2000 Sep-Oct: VOLUNTEERISM AMONG SCIENTISTS --- PASSING THE TORCH
2000 Jul-Aug: TITLE 42: SNAPPIER RECRUITMENT FOR THE SENIOR RANKS (guest Stephen Benowitz)
2000 May-Jun: CYBERSPACE PUBLISHING AND THE IRP --- 'E' IS FOR EXCELLENCE
2000 Mar-Apr: GIVING A SCINTILLATING SCIENTIFIC TALK
2000 Jan-Feb: IMPROVING THE POSTDOCTORAL EXPERIENCE AT NIH --- TWO WORDS TO THE WISE

1999 Nov-Dec: SPACE, THE FINAL FRONTIER
1999 Sep-Oct: FROM THE PICNIC TABLE TO THE LAB BENCH --- FOSTERING COMMUNITY AT NIH
1999 Jul-Aug: DECISION MAKING IN THE INTRAMURAL RESEARCH PROGRAM
1999 May-Jun: VACCINE DEVELOPMENT AT NIH... SHOULDERS OF GIANTS (guest Richard Wyatt)
1999 Mar-Apr: TOWARD AN NIH ACADEMY
1999 Jan-Feb: COLLABORATIVE MANAGEMENT OF CHANGE WILL LEAD CC... (guest John Gallin)

1998 Nov-Dec: THE QUALITY OF SCIENTIFIC LIFE AT THE NIH
1998 Sep-Oct: IT'S AS GOOD AS IT GETS --- REFLECTIONS ON NIH... (guest Arthur Levine)
1998 Jul-Aug: FOSTERING COLLABORATION AND TEAMWORK AT NIH
1998 May-Jun: CONFLICT OF INTEREST --- BACK TO BASICS
1998 Mar-Apr: FROM CONSTRUCTION CONSTERNATION TO A CALMER CAMPUS
1998 Jan-Feb: SUPPORT FOR CLINICAL RESEARCH BY NIH: AN UPDATE

1997 Nov-Dec: TRAINING SCIENTISTS AT NIH
1997 Sep-Oct: CONSTRUCTING NIH'S FUTURE
1997 Jul-Aug: INTER-INSTITUTE GROUPS SPARK INTEREST
1997 May-Jun: 'TIS BETTER TO GIVE AND RECEIVE: ON THE ART OF SHARING
1997 Mar-Apr: REVIEWING AND REINVIGORATING INTRAMURAL RESEARCH
1997 Jan-Feb: IMPROVING THE CLIMATE FOR CLINICAL RESEARCH AT NIH

1996 Nov-Dec: PARENTING AT NIH --- IT TAKES A CAMPUS
1996 Sep-Oct: THE NIH INTRAMURAL SCIENTISTS DATABASE
1996 Jul-Aug: CHANGING DEMOGRAPHICS OF NIH SCIENTISTS
1996 May-Jun: THE COMMUNITY CONNECTION (guest Janyce Hedetniemi)
1996 Mar-Apr: SEEDS OF CHANGE --- WHAT NIH HAS SOWN
1996 Jan-Feb: none

1995 Nov-Dec: POSTDOCTORAL TRAINING: LOOKING BEYOND TODAY
1995 Sep-Oct: SAFETY AND SECURITY AT NIH
1995 Jul-Aug: THE SHAPE OF THINGS TO COME, PART II
1995 May-Jun: CLINICAL CENTER REVIEW, WHAT'S REALLY GOING ON (guest John Gallin)
1995 Mar-Apr: THE SHAPE OF THINGS TO COME, PART I
1995 Jan-Feb: GAZING INTO THE CRYSTAL BALL, PART II (guest John Gallin)

1994 Nov-Dec: GAZING INTO THE CRYSTAL BALL, PART I (guest John Gallin)
1994 September: CLINICAL RESEARCH AT NIH
1994 July: INCREASING DIVERSITY IN THE NIH SCIENTIFIC STAFF
1994 May: EXTERNAL ADVISORY COMMITTEE REPORT -- HOW WILL IT AFFECT YOU?
1994 Mar-Apr: SIX THOUSAND POINTS OF LIGHT
1994 January: INTRAMURAL RESEARCH PROGRAM REVIEW UPDATE

1993 November: ROUNDTABLE WRAP-UP
1993 August: BUILDING A BETTER WORKPLACE AT NIH
1993 June: NEW POLICIES, PROGRAMS TO ENHANCE QUALITY OF SCIENTIFIC LIFE

1993 April: NEW “FAX-BACK” FEATURE TO PROVIDE SCIENTISTS A VOICE

1993 February: OFFICE OF INTRAMURAL RESEARCH IMPLEMENTS NEW PROGRAMS AND POLICIES

Banner image: NIH Catalyst logo
maintained by Christopher Wanjek for Dr. Michael Gottesman, DDIR

DDIR Web Board Archive

Search the Archive or browse past issues...

2010

May '10: musings on the Intramural Program in the Fortune 500; winning a Plain Language award; institute status for NCHMD; the Diversity Strike Force; Asian/Pacific Islander Heritage Month; and training training training
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April '10: main topics include support for our Chilean colleagues; NIH RNAi facility and world tour; buy one Zyntar Mega-Sorter5000™ and get the second one at half price; and obituaries, Leon Heppel and Harry Gelboin
[text-based html][PDF of formatted site]

March '10: main topics include musings on approved funding for iPS Cells; AAHRPP accreditation; snow storm heroes; research heroes; awards and award deadlines
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February '10: main topics include musings on the next steps for iPS cells at NIH; facilitating clinical research; friendlier mandatory computer training; Ann Sandberg
[text-based html][PDF of formatted site]

January '10: main topics include musings on upcoming iPS workshop; smart cards, computer security and web 2.0 at NIH; high-performance computing; month of "genius" visiting speakers; new archive website for the NIH History Office
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2009

December '09: main topics include musings on succession planning (a.k.a. regime change), tech transfer, AAHRPP accreditation, Scientific Management Review Board, and how WALS speakers are selected
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November '09: main topics include musings on mandatory training, obituaries, Earl Stadtman Investigators, and National Graduate Student Research Festival and Graduate Student Research Symposium
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October '09: main topics include musings on Maya Angelou, President Obama, Francis Collins and the new WALS season, plus updates on Building 10 space, new RNAi facility, computing facility, clinical research protocols and accessibility
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September ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
[text-based html][PDF of formatted site]

August ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
[text-based html][PDF of formatted site]

July ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
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June ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
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May ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
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April ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
[text-based html][PDF of formatted site]

March ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
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February ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
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January ‘09: no monthly topics, just regular updates on kudos, meetings and jobs
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2008

December ‘08: no monthly topics, just regular updates on kudos, meetings and jobs
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November ‘08: no monthly topics, just regular updates on kudos, meetings and jobs
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October ‘08: main topics include Back to School; Up to the Challenge; Pardon our Dust
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September ‘08: archive unavailable
[text-based html][PDF of formatted site]

July-August ‘08: no monthly topics, just regular updates on kudos, meetings and jobs
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June ‘08: main topics include Trans NIH; Workplace Initiatives, Family Matters; Give Us Some Credit
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May ‘08: main topics include Library Space, Lost and Found; Systems Biology at NIH; The Bamboo Ceiling; NIH Making History; Family Workplace Initiatives; and “Giulio Cantoni” Chamber Music Series Goes Silent
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April ‘08: main topics include PubMed Central Rule Starts April 7; Meet the New OIR Assistant Directors (Chuck Dearolf and Roland Owens); FARE and Career Symposium; 2008 Research Festival Call for Ideas; John Daly, 1934-2008
[text-based html][PDF of formatted site]

March ‘08: main topics include (overlap from February) 508 Compliancy; Contaminated Cultured Cell Lines; Requesting GWAS Data; Helping Hands in Bad Weather; Ed Rall, 1920-2008
[text-based html][PDF of formatted site]

February '08: main topics include 508 Compliancy; Contaminated Cultured Cell Lines; Requesting GWAS Data; Helping Hands in Bad Weather
[text-based html][PDF of formatted site]

January '08: main topics include Computer Security Mandate; Going Public with NIH Research; NBS, New Year Blitz; New Position, Assistant Clinical Investigator (from December); Felcom Dot-Com (from December); Earl Stadtman, 1919-2008
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2007

December '07: main topics include Use or Lose, Share and Care; New Position, Assistant Clinical Investigator; Felcom Dot-Com
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November '07: main topics include Mercury (Hg) Falling; Big Talk on the Big Bang; The Arthur Kornberg Papers; intro to History Office Director Robert Martensen; From Chaos to Consensus; nominations open for WALS 2008-2009
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October '07: main topics include Graduate Student Research Festival; New GWAS Policy; Diversity, Not There Yet; Update from Celia Hooper
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September '07: main topics include Research Festival Time; New WALS Season; Call for Award Nominations
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August '07: main topics include Summer Poster Day; Tech Transfer Made Easy; Rumor Roundup
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July '07: main topics include Biomarkers Consortium; why intramural research matters; GAIN ADHD Genotype & Phenotype Data Available from dbGaP; intro to OHSR Director Jerry Menikoff
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June '07: main topics include NBS Cutover on June 4; Kudos and SIGs: A Connection?
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May '07: main topics include NIH Graduate Student Research Symposium; Updates to Title 38 and Title 42; intro to ORF Director Dan Wheeland
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April '07: main topics include Distinguished Women Scientists at NIH; Warehouse Delivery Snag; Island Getaway With Nobel Laureates
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March '07: main topics include Feb 2007 SD retreat; Advisory Committee for Ethics Regulation Implementation, Research Festival 2007; intro to ORS Director Alfred Johnson; and Asbestos
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February '07: main topics include introduction of revamped DDIR web board; Dollar Stretching; and Trans-NIH Initiative: Immunity, Imaging and Systems Biology
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older format (many links are broken; images are not yet tagged)...

2006: January-February
2005: December, November, September, August, June, March
2004: December, November, August, July, June, May, April, March, February, January

2003: December, November, September, August, July, June, May, April, March
2002: December, November, October, September, July, June, May, April, February, January
2001: December, October, September, August, July, June, April, January
2000: Dec. part II, Dec. part I, Nov., Sept., Aug., July, May, April, March, Feb., Jan.
1999: Dec., Nov., Oct., Sept. II-I, Aug., July, June, May, April, March II-I, Feb.
1998: Dec., Nov., Oct. II-I, Sept. II-I, Aug. II-I, Jul., Jun. II-I, May III-II-I, Apr. II-I, Mar. II-I, Feb. II-I, Jan. II-I
1997: Dec., Nov. II-I, Oct. II-I, Sept., Aug. II-I, Jul., Jun. II-I, May II-I, Apr. II-I, Mar. II-I, Feb. III-II-I, Jan.
1996: Dec. II-I, Nov. II-I, Oct. II-I, Sept., Aug., Jul., Jun. II-I, May II-I, Apr. II-I, Mar II-I, Feb., Jan.
1995: Dec. II-I, Nov., Oct., Sep. II-I, Aug. II-I, Jul. IV-III-II-I, Jun. II-I, May II-I, Apr. III-II-I, Mar. II-I, Feb. II-I, Jan. II-I
1994: Dec II-I, Nov II-I, Oct II-I, Sep II-I, Aug II-I, July II-I, June

Banner image: Old b/w arial-view image of NIH in the early years, courtesy NLM maintained by Christopher Wanjek for Dr. Michael Gottesman, DDIR.

About the DDIR's Web Board...

This electronic bulletin board is intended to facilitate communication among the NIH intramural research staff. The site is updated daily with postings about jobs, events, news stories, and other items of possible interest to the scientific staff. The site is viewable only within the NIH intranet.

Subscribers receive monthly notices via e-mail of each month's major new postings. To subscribe, simply link to https://list.nih.gov/cgi-bin/wa.exe?SUBED1=ddirbb-l&A=1 and and add your name and e-mail address.

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Send comments or ideas for postings to Christopher Wanjek, OIR Director of Communications.